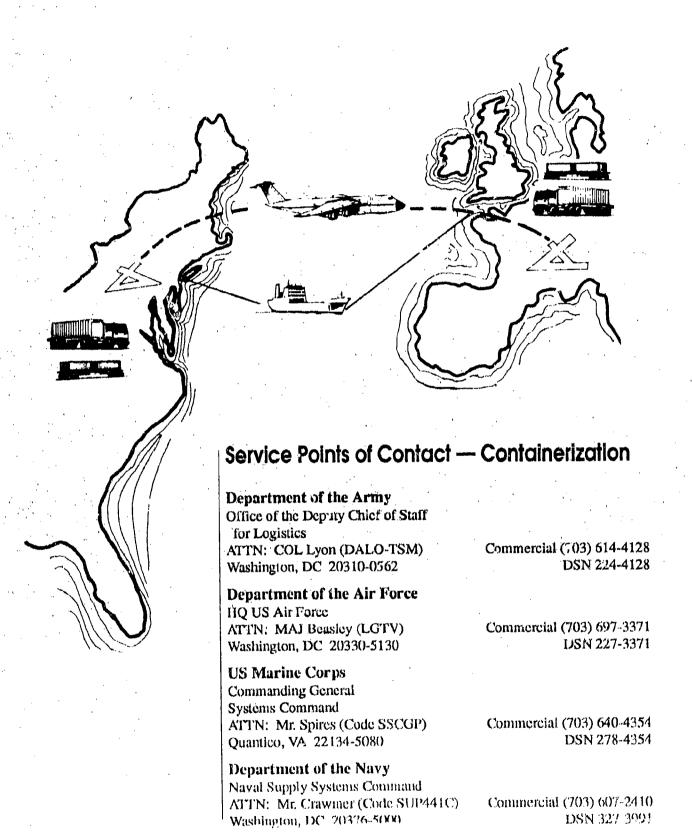
This document contains blank pages that were not filmed.

Intermodal Schematic



Foreword

oday, virtually all of the commercial products and equipment shipped overseas, as well as by rail, are shipped using some form of intermodal container. The Merchant Marine Industry has made the transition from the breakbulk fleet of the past to the current containership fleet. Because of the Merchant Marine Industry's impact on the transportation of supplies by sea, the Department of Defense (DOD) has placed an increasing emphasis on containers to deploy and support forces in overseas contingency situations.

This publication was initiated in 1977 by the former office of the Project Manager, Army Container Oriented Distribution System, to provide information to Army activities. The Joint Intermodal Steering Group requested that the status of the other Services' containerization programs be included, beginning with the January 1979 issue. In November 1981, publication responsibility was transferred to the US Army Belvoir Research, Development and Engineering Center (BRDEC). BRDEC has published the report yearly, except for 1987, 1988, and 1993, in accordance with DOD Directive 4500.37 (Management of the DOD Intermodal Container System).

Within DOD, the deployments within the past few years have resulted in increased visibility of containers and the equipment used to handle the containers. The deficiencies in the containerization system within DOD are being addressed and efforts made to correct the deficiencies to ensure an efficient movement of cargo through the intermodal containerization system. In addition to the deficiencies, the deployments have resulted in the changing role of the intermodal container from a strategic container providing a mode of transport to the theater to a strategic as we'll as tactical container.

Mr. Norman Fertman is the project director and Mr. Philip Barickman is the technical coordinator for this report. Mr. Barickman may be reached at DSN 654-2297, Commercial (703) 704-2297, or FAX (703) 704-2306. Comments on this report are welcomed and may be submitted to:

Commander
US Army Belvoir RD&E Center
ATTN: SATBE-FMR
Fort Belvoir, VA 22060-5606

Comments or questions on particular pieces of equipment should be referred to the point of contact shown for that particular program.

NORMAN H. FERTMAN

Project Director

Logistics Equipment Directorate

Moman Fetman

Belvoir RD&E Center

1994 Container System Hardware

Contents

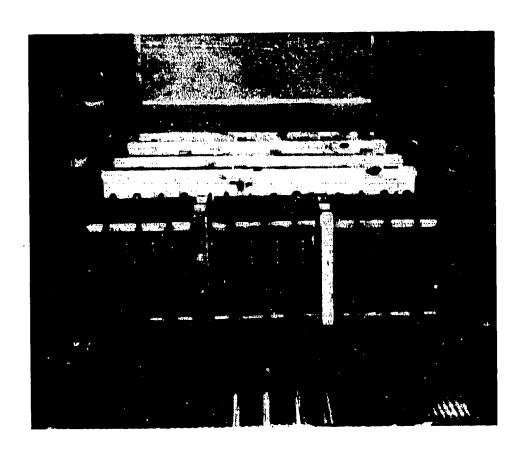
	Page
PART I.	CONTAINERS1
	MILVAN—Ammunition Restraint3
	MILVAN—General Cargo5
	20' ISO End-Opening Container
	Deployable Medical (DEPMED) Container9
	20' Shipping/Storage Container (Bulk and Configured)11
	20' ISO Side-Opening Container
	Refrigerated Container
	20' Half-Height Container
	ISO Tactical Shelter
	Mobile Facility (MF) Program21
	TRICON-Shipping/Storage Container (Bulk and Configured)23
	Quadruple Container (QUADCON)
	Equipment Deployment and Storage System (EDSS)27
	Shipping Frame, $4' \times 6^2/3' \times 8'$ 29
	Shipping Frame, 8' x 8' x 10'
	20' Flatrack
	40' Heavy Duty Flatrack
	Load and Roll Pallet (LRP)
PART II.	CONTAINER UNLOADING EQUIPMENT39
	4,000-Pound Capacity Forklift Truck41
	4,000-Pound Capacity Rough Terrain, Forklift Truck (4K RTFLT)43
	Mobile Loading Ramp45
	6,000-Pound Capacity Variable Reach Rough Terrain Forklift
	Truck (VRRTFLT)
	All Terrain Lifter, Articulated System (ATLAS)49
	Extendable Boom Forklift (EBFL)
PART III.	CONTAINER HANDLING EQUIPMENT53
	Spreader Bars, Intermodal Container Handling55
	Crane, 14-Ton, Wheel-Mounted, ISO Container Handling57
	Rough Terrain Container Crane (RTCC)59
	Crane, High Speed, High Mobility61
	140-Ton, Truck-Mounted, Container Handling Crane63
	Lightweight Amphibious Container Handler (LACH)65
	50,000-Pound Capacity Container Handler, Rough Terrain (RTCH)67
	20'/40' Container Sideloader69

•		rage
	Palletized Load System (PLS)	71
•	Logistics Vehicle System	73
PART IV.	GROUND TRANSPORTATION EQUIPMENT	75
21.24.2 2 77	Chassis, Semitrailer: Coupleable, MILVAN Container Transporter	
	Semitrailer, Linehaul, Breakbulk/Container, M872 Series	
	Semitrailer, Tactical, Dual Purpose Breakbulk/	
	Container Transporter, 22 ¹ / ₂ -Ton, M871 Series	81
	Truck Tractor, Yard Type, 4 x 2, M878A1	
	Truck Tractor, Linehaul, 6 x 4, M915 Series	
	5-Ton Truck Bed with ISO-Configured Locking Devices	
	Truck, Stake, 6 x 6, 15-Ton, 46,000 GVW, with ISO Lock	
	Railway Car, Flat (Heavy Duty), 150-Ton Capacity, Domestic Service	
PART V.	LOTS, HARBOR, AND CONTAINER OFFLOADING	00
	AND TRANSFER EQUIPMENT	
	SEASHED System	
	Floating Causeway (FC)	
	Elevated Causeway, Modular (ELCAS (M))	
	Roll-On/Roll-Off Discharge Facility (RO/RO DF) Causeway Section, Powered (CSP)	
	Modular Causeway Ferry (MCF)	
	Lighter, Air Cushion Vehicle, 30 Ton (LACV-30)	
	Pontoon Air Cushion Kit (PACK)	
	Landing Craft, Utility (LCU) 2000	
	Logistics Support Vessel (I.SV)	
	Fast Logistic Ship (T-AKR) Program	
	Auxiliary Crane Ship (T-ACS)	
	High Sea State Container Transfer System (HISEACOTS)	
	Automated All-weather Cargo Transfer System (AACTS)	
	Cantilevered Lift Frame (CLF)	
PART VI.	AERIAL PORT/TERMINAL EQUIPMENT	
	Avionics Intermediate Shop (AIS) Shelter Movement	
	Elevator Loader	
	25,000-Pound 463L Aircraft Loader	
	40,000-Pound 463L Aircraft Loader	
	35-Ton Bridge Crane	135
PART VII.	DELETED PROGRAMS	137
ACRONYM	4S AND ABBREVIATIONS	141

Part I Containers

Agge	1-	
—	ion For	
NTIS	CRA&I	d
DTIC		ē
Justifi	oun ced Cation	a
By Distrib	ution/	
Α	vailability (Codes
Dist	Avail and Special	/ or
1-1		

MILVAN - Ammunition Restraint



LENGTH	20'
WIDTH	8'
HEIGHT	8'
WEIGHT (EMPTY)	5,785 pounds
GROSS WEIGHT (DESIGNED)	44,800 pounds

MILVAN - Ammunition Restraint

POINT OF CONTACT

Mr. Philip Barickman US Army Belvoir RD&E Center, SATBE-FMR Fort Belvoir, VA 22060-5606 DSN 654-2297/Commercial (703) 704-2297

ITEM DESCRIPTION

The MILVAN ammunition restraint container is an American National Standards Institute (ANSI)/International Organization of Standardization (ISO) container equipped with restraint hardware capable of handling approximately 20 long tons of ammunition. The restraint system consists of eight slotted steel rails permanently installed on each side wall and 25 adjustable crossbars that can be inserted in the slotted rails. Its use at full rated load has been approved by the US Coast Guard and the Association of American Railroads. The MILVAN container is 8' x 8' x 20', and weighs 5,785 pounds including 1,300 pounds for the restraint system. Some 8' x 8.5' x 20' containers have been procured and are currently in the Army inventory.

STATUS

The Army procured 4,500 MILVAN ammunition restraint containers and there are 4,241 in the present inventory. A total of 249 MILVANs, each 8' x 8.5' x 20' with composite flooring and corrosion resistant steel, were procured. A total of 1,160 MILVANs, each 8' x 8' x 20', were procured and delivered to the Army under a contract awarded on 30 September 1989.

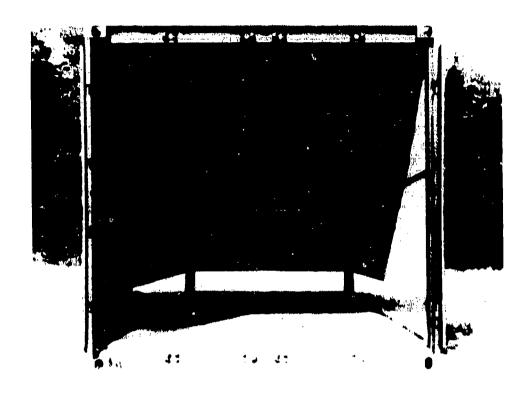
PROGRAM PLAN

There is no current plan to procure additional quantities of Ammunition Restraint MILVANS.

NSNs

8' x 8' x 20': 8115-00-151-9953 8' x 8.5' x 20': 8115-01-220-9527

MILVAN - General Cargo



LENGTH	20'
WIDTH	8'
HEIGHT	8'
VOLUME INSIDE	1,050 cubic feet
WEIGHT (EMPTY)	4,700 pounds
GROSS WEIGHT (DESIGNED)	44,800 pounds

MILVAN - General Cargo

POINT OF CONTACT

Mr. Philip Barickman
US Army Belvoir RD&E Center, SATBE-FMR
Fort Belvoir, VA. 22060-5606
DSN 654-2297/Commercial (703) 704-2297

ITEM DESCRIPTION

The MILVAN provides a capability of handling up to 20 long tons of general cargo. It is used to transport and temporarily store military cargo. The MILVAN dimensions are 8' x 8' x 20', weighs 4,770 pounds when empty, and has an internal volume of 1,060 cubic feet. The MILVAN is designed to ANSI/ISO standards and procured to military performance specification MIL-C-52661. The container is of steel construction with hardwood flooring and the walls are lined with plywood.

STATUS

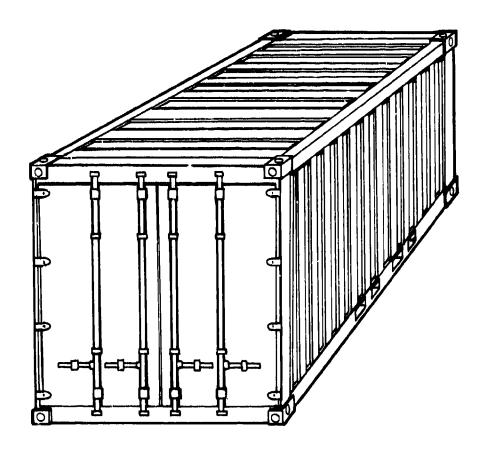
The Army has procured a total of 2,200 MILVAN general cargo containers. The International Convention for Safe Containers (CSC) was ratified by the United States 3 January 1978. The US Coast Guard, as the implementing agency, issued approval to the Army for the existing MILVAN fleet on 9 November 1978. Beginning in 1978, with depot participation, the container inventory was refurbished and the CSC approval plate mounted on the containers.

PROGRAM PLAN

There is no current plan to procure additional quantities of MILVANs.

NSN

8115-00-168-2275



20' ISO End Opening Container

POINT OF CONTACT

Mr. Doug Chesnulovitch
PM-AMMOLOG, AMCPM-AL
Picatinny Arsenal, NJ 07806-5000
DSN 880-4737/Commercial (201) 724-4737

ITEM DESCRIPTION

The 20' ISO end opening container is a non-developmental item being used by the US Army to transport munitions. Since the container is ISO, it can be transported readily by commercial and military conveyances and handled by container handling equipment from the top by the corner fittings or from the bottom by the forklift pockets. The door end corner posts have been modified with angle iron to enhance blocking and bracing for munitions. The container does not have a permanent restraint system like the Restraint MILVAN. A new system of wooden blocking and bracing is being used to restrain all types of munitions within the container.

STATUS

In FY91, 3,950 containers were procured by Military Sealift Command for the US Army to support the retrograde of munitions from Southwest Asia during FY92. The containers are under control of the Joint Container Control Office.

PROGRAM PLAN

Program completed.

NSNs

8115-01-363-8193 (MORTEO)

8115-01-365-0197 (COBRA)

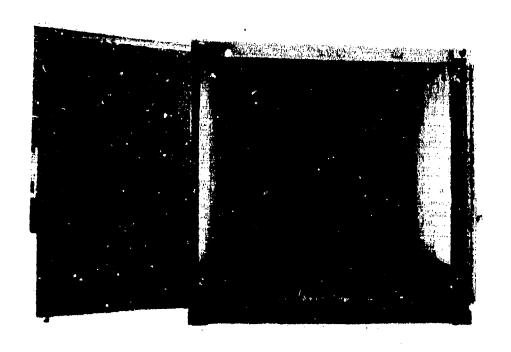
8115-01-363-8194 (HFE)

8115-01-363-8192 (SEACOLD)

8115-01-363-4442 (RAW)

8115-01-363-8195 (TOKYU CAR)

Deployable Medical (DEPMED) Containers



LENGTH	20'
WIDTH	8'
HEIGHT	8'
TARE WEIGHT	5,150 pounds
GROSS WEIGHT	44,800 pounds

Deployable Medical (DEPMED) Containers

POINT OF CONTACT

Mr. Tom Lavin
US Army Aviation and Troop Command, AMSAT-W-TV
4300 Goodfellow Blvd.
St. Louis, MO 63120-1798
DSN 693-2619/Commercial (314) 263-2619

ITEM DESCRIPTION

The DEPMED containers are used in direct support of the Surgeon General's fielding of the Deployable Medical Systems. They are used for shipping and storage of components for various operating rooms, medical support, and laboratories which comprise the Deployable Medical Systems. The DEPMED Container is an 8' x 8' x 20' ISO container with both end and side doors. The DEPMED container is designed to ANSI/ISO standards and is produced from a military performance specification. The container is constructed of steel with hardwood flooring, and the interior walls are lined with plywood.

STATUS

A total of 4,485 DEPMED containers were procured and delivered under a contract awarded on 11 May 1988.

PROGRAM PLAN

Continue to field the DEPMED containers through FY95.

NSN

8115-01-241-7524

20' Shipping/Storage Container

(Bulk & Configured)



20' Shipping/Storage Container

(Bulk & Configured)

POINT OF CONTACT

Mr. Jamie Cannon Naval Construction Battalion Center (CESO Code 1573) Port Hueneme, CA .93043-4300 DSN 551-1895/Commercial 805-982-1895

ITEM DESCRIPTION

The 20' storage container is an 8' high x 8' wide x 20' long lockable, watertight, reusable container. It is of all steel construction with standard ISO corner fittings and two sets of forklift pockets for moving empty or loaded containers. Containers are designed to ISO standards. Two types of containers are being procured: Bulk and Configured. Configured containers may consist of cabinets with drawers or shelves, rifle racks, or a combination thereof to make up storerooms and armories.

• Cabinets with drawers or shelves are available in three sizes: 30" wide x 27 3/4" deep
45" wide x 27 3/4" deep
60" wide x 27 3/4" deep

- Usable drawer heights range from 2" to 13"
- Shelf heights are adjustable in 1" increments.

Currently, six different styles of storeroom configurations plus an armory configuration are being procured.

STATUS

A contract was awarded in May 1986 to J. D. Bertolini Industries, Limited, for 1,171 Bulk and 641 storeroom/armory Configured containers. Deliveries began in FY89 and were completed in FY91. A second contract was awarded in September 1991 to LBCO, Inc., for 389 Bulk and 44 Configured containers. Deliveries began in FY92 and were completed FY93.

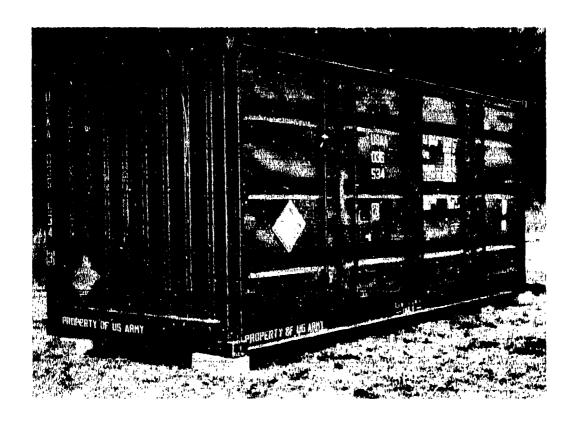
PROGRAM PLAN

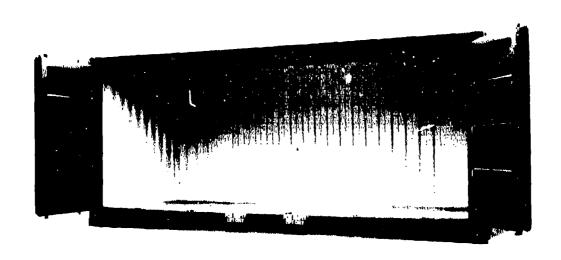
Upon completion of the second contract, no further procurement actions are planned.

NSNs

Bulk: 8145-01-287-8567

20' ISO Side-Opening Container





20' ISO Side-Opening Container

POINTS OF CONTACT

CAPT Chad Gericke HQ, US Air Force Europe, LGMWC, Unit 3050 Box 105 Ramatein AB, GE, APO AF 09094-0105

DSN 480-6688/Commercial 011-49-6371-47-6688

Mr. Philip Barickman
US Army Belvoir RD&E Center, SATBE-FMR
Fort Belvoir, VA 22060-5606
DSN 654-2297/Commercial (703) 704-2297

ITEM DESCRIPTION

The 20' ISO side-opening container is an ISO container with two double doors located on one side of the container which fully opens to allow unobstructed access to its contents. The side-opening container is a non-developmental item and can be transported by commercial and military conveyances. The container has internal tiedown rings which can be used to secure cargo during shipment.

STATUS

Due to an urgent need to improve munitions storage and handling capability in USAFE, HQ USAFE released a Request for Proposal (RFP) to purchase 20' side-opening ISO containers in FY86. A total of 1,200 side-opening containers were procured by USAFE and are being used to store and transport munitions.

During FY91, Military Sealift Command procured 625 side-opening containers from American Coastal Industries for the Army. The containers were procured in support of the retrograde of munitions from Southwest Asia and are now under control of the Joint Container Control Office.

PROGRAM PLAN

HQ USAFE has received funding through the Productivity Investment Fund Initiative for the procurement of approximately 3,400 containers in FY94 and FY95. The additional containers will provide USAFE with the capability to ship All-Up-Round, containerized ordnance to any place on the globe. The Army has no plans to procure additional side-opening containers.

NSNs

USAF: 2 Fork Pockets: 8145-L900411D USAF: 4 Fork Pockets: 8145-L900412D

USAF: 4 Fork Pockets: 8140-01-296-7241CU (New)

Army: 8115-01-363-8668

Refrigerated Container



LENGTH	20'
WIDTH	8'
HEIGHT	8'
TARE WEIGHT	8,000 pounds
DOOR OPENING HEIGHT	82*
DOOR OPENING WIDTH	89'

Refrigerated Container

POINT OF CONTACT

Mr. Philip Barickman
US Army Belvoir RD&E Center, SATBE-FMR
Fort Belvoir, VA 22060-5606
DSN 654-2297/Commercial (703) 704-2297

ITEM DESCRIPTION

The refrigerated container provides a capability to transport, temporarily store, and distribute temperature-sensitive cargo. The container, including the refrigeration unit, is nominally 8' x 8' x 20' and weighs approximately 8,000 pounds. The unit is powered by a military standard 10kW diesel engine generator set or by an external electrical power supply. The refrigerated container is a modified commercial design and procured to a military specification. It meets all ISO requirements for intermodal shipments.

STATUS

A total of 665 containers, including 24 for the US Navy, were purchased and delivered by 1980. The Navy procured an additional 49 units in FY85. The Army Surgeon General procured 43 refrigerated containers from Engineered Air Systems in FY91. Delivery was completed in FY92.

PROGRAM PLAN

The Army Surgeon General anticipates an FY93 award of a contract for the production of 50 refrigerated containers, with an additional available option of 75. Delivery of the refrigerated containers is scheduled for FY94 and FY95.

NSN

8115-01-015-7039

20' Half-Height Container



20' Half-Height Container

POINTS OF CONTACT

Mr. Jamie Cannon
Naval Construction Battalion Center (CESO Code 1573)
Port Hueneme, CA 93043-4300
DSN 551-1895/Commercial 805-982-1895

Mr. Philip Barickman
US Army Belvoir RD&E Center, SATBE-FMR
Fort Belvoir, VA 22060-5606
DSN 654-2297/Commercial (703) 704-2297

ITEM DESCRIPTION

The Half-Height container is 20' long by 8' wide by 4' 3" high with fixed sides, open top, and one drop-end opening to allow access to material by either material handling equipment or crane. Bows and tarpaulins are provided with the containers for cover during shipping and storage. The Navy uses the Half-Height containers primarily to ship drummed oils and lubricants. The Army uses the Half-Height containers primarily to ship ammunition having a high weight to volume ratio such as 155mm projectiles.

STATUS

In August 1989, the Navy awarded a contract to Shoals American Industries, Inc., for 194 Half-Heights. Deliveries to the Navy began and were completed in FY90.

During July and August 1991, Military Sealift Command procured 1,100 Half-Height containers for the Army in support of the retrograde of munitions from Southwest Asia. Deliveries were completed by the end of 1991 and the containers are under the control of the Joint Container Control Office.

PROGRAM PLAN

There is no current plan to procure additional quantities.

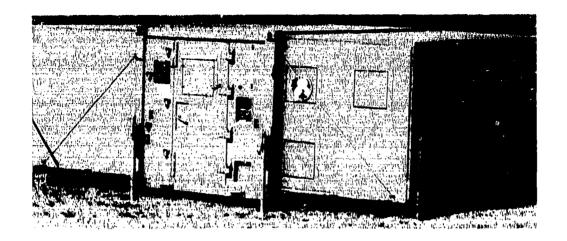
NSNs

Navy: 8145-01-291-0937

Army: 8115-01-363-8669 (ACI)

8115-01-363-8670 (ADAMSON) 8115-01-365-0198 (COBRA)

ISO Tactical Shelter





ISO Tactical Shelter

POINT OF CONTACT

Mr. Art Murphy
US Army Natick RD&E Center (SATNG-UST)
Natick, MA 01760-5017
DSN 256-5246/Commercial (508) 651-5246

ITEM DESCRIPTION

An ISO Tactical Shelter is a presized, transportable structure designed for a functional requirement and provides live-in, work-in, or container capability. This structure can be either expandable or non-expandable and conforms to applicable ANSI/ISO container standards. All services are increasing their utilization of the shelter concept, and the impact of shelters on the transportation and material handling system will become more significant in coming years. A standard family of 20' rigid wall ISO shelters has been developed by the US Army Natick Research, Development and Engineering Center for DOD use. The shelter family includes three types:

- Non-Expandable Shelter, Tactical (11,100-pound payload)
- One-Side Expandable Shelter, Tactical (9,600-pound payload)
- Two-Side Expandable Shelter, Tactical (8,100-pound payload)

STATUS

ISO Tactical Shelters have completed development and a Technical Data Package is finalized. Three production contracts have been awarded to date: the first in April 1984 for 1,739 units; the second in August 1988 for 1361 units. A third production contract was awarded 11 September 1992 to Atlantic Industries, Inc. This contract is a 3 year requirements type of contract thereby allowing funds to be obligated against the contract as shelter requirements are received by ATCOM. The following quantities represent Army standard ISO shelters procured for specific new Navy, Air Force, and Army ISO sheltered systems to date:

ISO Tactical Shelter	Quantit
Non-Expandable	31
One-Side Expandable	1,762
Two-Side Expandable	1,307

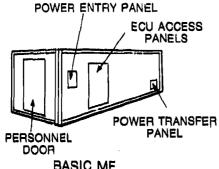
A number of enhancements to the ISO shelter are being designed to provide threat protection and to increase its functional workspace. The ISO shelter enhancement programs currently in development include Chemical/Biological (CB) Protection, Electro-Magnetic Interference (EMI) shielding, and a 1,000 square foot Modular Extendable Rigid Wall Shelter (MERWS) kit. Two enhancement programs have completed development. The CB Non-Expandable shelter Milestone III In Process Review (IPR) was completed in August 1990, and the complexing passageway Milestone III IPR was completed in November 1989.

PROGRAM PLAN

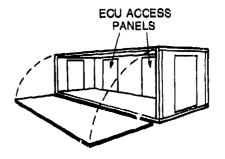
Continue to monitor production contracts and field ISO shelters.

NSNs	60 Amp	100 Amp
Non-Expandable:	5411-01-136-9837	5411-01-294-6390
One-Side Expandable:	5411-01-124-1377	5411-01-295-3433
Two-Side Expandable:	5411-01-136-9838	5411-01-294-9866

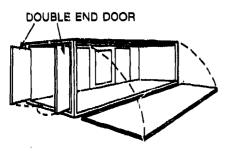
Mobile Facility (MF) Program



BASIC MF



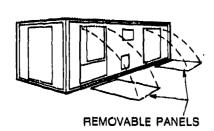
SIDE OPENING MF TYPE A



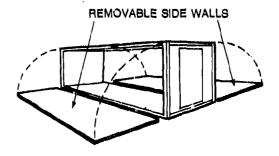
SIDE OPENING MF TYPE B (MODIFIED)



SIDE OPENING MF TYPE B



INTEGRATION UNIT



SIDE OPENING MF TYPE C

LENGTH	20
WIDTH	8
HEIGHT	8

Notes:

- All meet ISO/ANSI Specifications for shipping containers
- All are Certified to meet Conference for Safe Container Requirements

Mobile Facility (MF) Program

POINTS OF CONTACT

Mrs. Kathy Clark/MAJ Ken Karlson, USMC Naval Air Systems Command, AIR-4152A8/AIR-4152A9 Washington, DC 20361-4170 DSN 222-9425/Commercial (703) 692-9425

ITEM DESCRIPTION

The Naval Air Systems Command (NAVAIR) Mobile Facility (MF) Program utilizes a family of rigid walled ISO containers as habitable tactical shelters principally to contain aviation weapons system maintenance, tactical operational, logistical, and administrative functions. These shelters, referred to as MFs, are widely utilized by Navy and Marine Corps aviation units and to a lesser degree by other intraservice and interservice units within DOD. There are six MF types, all of which meet ISO 668/1161/1496 and ANSI MH5.1.1M specifications and have external dimensions of 8' wide, 8' high, and 20' long. Gross shipping weight is 20,000 pounds with a tare weight of approximately 5,200 pounds. MFs may be integrated into complexes by a variety of methods utilizing standard MF program ancillary equipment. MFs are mainly aluminum, foam, and beam construction having a 15-year service life. NAVAIR is the DOD Primary Inventory Control Activity for MFs.

STATUS

The MF Program is a mature program with procurement of ISO/ANSI specification MFs since 1975. Currently, over 5,000 MF units are in service. Recent contract awards are as follows:

Contract Number	Year	Quantity
N00140-84-3251	1984	1,308
N00140-86-5994	1986	337
N00140-87-9326	1987	874
N00140-89-SA03	1989	243
N00140-89-2812	1989	640
N68335-91-C-0257	1991	200
N68335-92-C-0089	1992	635

PROGRAM PLAN

Contracts are expected to be awarded in FY95 with total procurement quantity of all MF types to be 400.

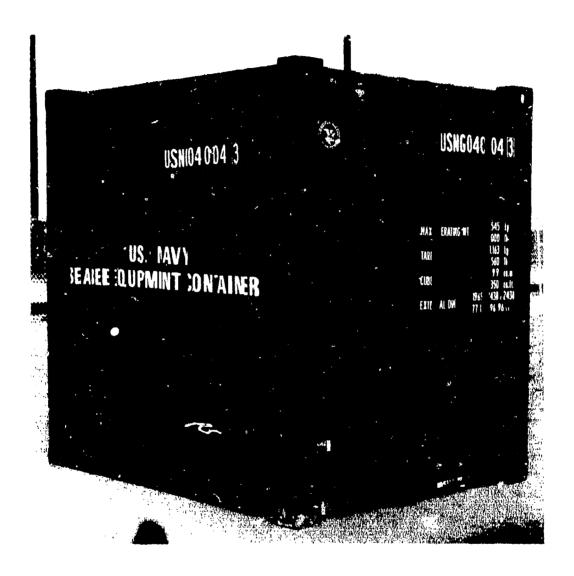
NSNs

Type MF	NSNs
Basic MF (60/400Hz)	2M-5411-01-355-4323
Basic MF (60Hz only)	2M-5411-01-355-4322
Integration Unit MF	2M-5411-01-355-4318
Side Opening MF Type A	2M-5411-01-355-4320
Side Opening MF Type B	2M-5411-01-355-4321
Side Opening MF Type C	2M-5411-01-355-6566
Side Opening MF Type B (Modified)	2M-5411-01-355-4319

CAGE Code 30003

TRICON - Shipping/Storage Container

Bulk and Configured



LENGTH	77.5
WIDTH	96.0*
HEIGHT	96.0*

TRICON - Shipping/Storage Container

Bulk and Configured

POINTS OF CONTACT

Mr. Jamie Cannon

Naval Construction Battalion Center (CESO Code 1573)

Port Hueneme, CA 93043-4300

DSN 551-1895/Commercial 805-982-1895

Mr. Philip Barickman

US Army Belvoir RD&E Center, SATBE-FMR

Fort Belvoir, VA 22060-5606

DSN 654-2297/Commercial (703) 704-2297

ITEM DESCRIPTION

The TRICON is an 8' high x 8' wide x 6.5' long lockable, watertight, reusable container. It is of all steel construction with standard ISO corner fittings and 3-way forklift pockets (sides and back). Two styles of the containers are being procured by the Army: Bulk and with Shelves. Two styles of containers were procured by the Navy: Bulk and Configured. Configured containers consist of cabinets with drawers or shelves, rifle racks, or a combination thereof, to make up storerooms or armories.

• Cabinets with drawers or shelves are available in five sizes: 30" wide x 22 3/4" deep

60" wide x 22 3/4" deep

30" wide x 27 3/4" deep

45" wide x 27 3/4" deep

60" wide x 27 3/4" deep

- Usable drawer heights range from 2" to 13"
- Shelf heights are adjustable in 1" increments.

Currently, three different styles of storeroom configurations, plus an armory configuration, are being procured. Three containers may be coupled together into a nominal 20' modular assembly for ocean shipping purposes.

STATUS

A contract was awarded in May 1986 to J. D. Bertolini Industries, Limited, for 119 Bulk and 243 Configured containers. Deliveries began in FY89 and were completed in FY91. A second contract was awarded in September 1991 to I BCO, Inc., for 405 Bulk and 16 Configured TRICONs. Deliveries on the second contract began in FY92 and were completed in FY93.

PROGRAM PLAN

The Army anticipates awarding an FY93 contract for 7450 TRICONS for use with the Inland Petroleum Distribution System. This will be a five year contract with delivery to begin in FY94. The Navy has no plans to procure additional TRICONS.

NSN

Bulk: 8145-01-287-3294

Quadruple Container (QUADCON)



LENGTH	96.0"
WIDTH	57.38'
HEIGHT	82.0"
CARGO CAPACITY (approx.)	8.200 pounds

Quadruple Container (QUADCON)

POINT OF CONTACT

Mr. Jim Spires
CG. Marine Corps Systems Command, Code SSCGP
Quantico, VA 22134-5080
DSN 278-4354/Commercial (703) 640-4354

ITEM DESCRIPTION

The QUADCON is part of the Marine Corps Family of Intermediate Size Containers. The QUADCON has ISO corner fittings to allow for coupling of the QUADCONs into arrays of up to four units. An array of four QUADCONs has the same dimensions as a 20' ISO container (except for height) and will be certified to meet all ISO standards and CSC approvals. The container is lockable, weatherproof, reusable, and has a gross weight of 10,000 pounds. The QUADCON has double doors on each end to provide full access to the contents. To accommodate smaller items, a small item storage cabinet can be installed or removable inserts may be placed on shelves inside the QUADCON.

STATUS

In August 1984, 560 first generation QUADCONs were procured. A field evaluation of these QUADCONs was completed in May 1987. On 30 September 1991, a multi-year contract was awarded to Keco Industries, Inc. for procurement of the second generation QUADCON.

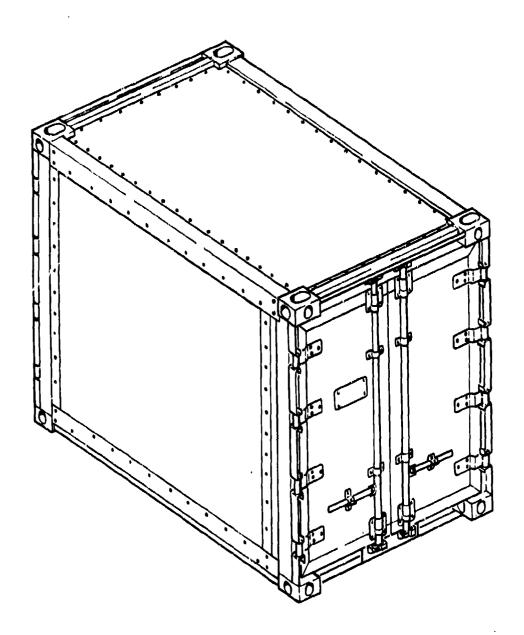
PROGRAM PLAN

Contractor completed First Article Testing and production deliveries are to begin in FY94. A follow-on contract is currently planned for FY95 or later to meet the Marine Corps Acquisition Objective.

NSNs

8115-01-194-4017 (old) 8115-01-354-0797 (new)

Equipment Deployment and Storage System (EDSS)



Equipment Deployment and Storage System (EDSS)

POINT OF CONTACT

Mr. Rolland Riley
US Army Belvoir RD&E Center, SATBE-FMR
Fort Belvoir, VA 22060-5606
DSN 654-2317/Commercial (703) 704-2317

ITEM DESCRIPTION

The Equipment Deployment and Storage System (EDSS) is a new requirement for the Army and consists of two types of containers. One container is designed for primary transport by ground and sea transportation assets, and the other is designed for primary transport by air transportation assets.

The EDSS for ground and sea transport will be fully ISO compatible yet be able to be broken down into smaller containers for use on organic transportation. Three or four containers will be capable of being joined together to form a 20' long equivalent ISO container. The joined containers will meet all ISO requirements and obtain CSC approval. The containers will have doors on both ends to allow for full access to the contents even when joined together. The individual containers will be weatherproof, four-way forkliftable, capable of External Air Transport (EAT), and configurable with shelves.

STATUS

A Operational Requirement Document (ORD) for the EDSS has been prepared by the Quartermaster Center and School, and approved by HQ TRADOC in July 1993. Other service containers are being investigated to meet Army requirements.

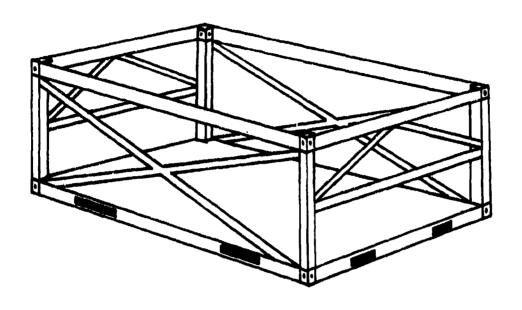
PROGRAM PLAN

A technical data package will be prepared and the EDSS containers procured beginning in FY94, pending the availability of funds.

NSN

Not assigned

Shipping Frame, $4' \times 6^2/3' \times 8'$ (SIXCON)



LENGTH	62/3
WIDTH	8'
HEIGHT	4'
ARRAYED CONFIGURATION	8' x 8' x 20'

Shipping Frame, $4' \times 6^2/3' \times 8'$ (SIXCON)

POINT OF CONTACT

Mr. Jim Spires
CG, Marine Corps Systems Command, Code SSCGP
Quantico, VA 22134-5080
DSN 278-4354/Commercial (703) 640-4354

ITEM DESCRIPTION

The SIXCON Shipping Frame is a reusable open top cargo carrier with four-way forklift handling capability with ISO standard corner fittings. Can be arrayed up to six, forming an 3' x 8' x 20' configuration to fit the cell of a containership. Capability objective is to provide an open container of intermediate size compatible with US Navy amphibious ships and the Merchant Fleet. The frame is used as an integral component of SIXCON fuel/water storage and pump modules though it could be used for general cargo and organizational property.

STATUS

A procurement contract for 402 shipping frames was conducted and the shipping frames are now in use with the fuel and water modules.

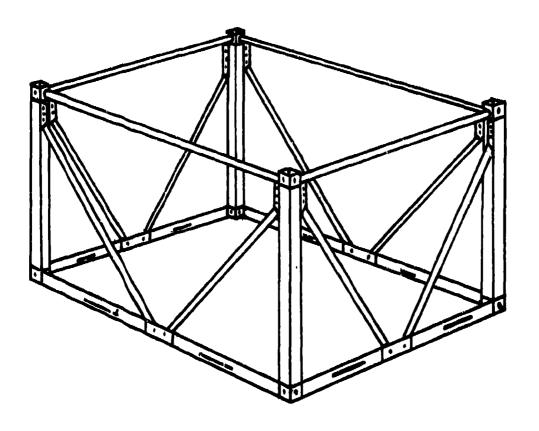
PROGRAM PLAN

There are no plans for future procurements since the item was for one unique application.

NSN

Not applicable

Shipping Frome, 8' x 8' x 10'



LENGTH	10'
WIDTH	8'
HEIGHT	8'
ARRAYED CONFIGURATION	8' x 8' x 20'

Shipping Frame, 8' x 8' x 10'

POINT OF CONTACT

Mr. Jim Spires
CG, Marine Corps Systems Command, Code SSCGP
Quantico, VA 22134-5080
DSN 278-4354/Commercial (703) 640-4354

ITEM DESCRIPTION

The 10' Shipping Frame is an open top cargo carrier of steel construction which features a four-way forklift handling capability and standard ISO corner fittings. An array of two frames forms an 8' x 8' x 20' configuration and fits the 20' cells of a containership. The frame is used to support the mounting and movement of the reverse osmosis water purification unit (ROWPU).

STATUS

Approved for service use was obtained in May 1981. An Army contract was awarded 30 September 1983 for the procurement of 496 frames which satisfied Marine Corps requirements.

PROGRAM PLAN

There are no plans for future procurements since the item was for one unique application.

NSN

Not applicable



20' Flatrack

POINTS OF CONTACT

Mr. Jamie Cannon Naval Construction Battalion Center (CESO Code 1573) Port Hueneme, CA 93043-4300 DSN 551-1895/Commercial (805) 982-1895 Mr. Doug Chesnulovitch
PM-AMMOLOG, AMCPM-AL
Picatinny Arsenal, NJ 07806-5000
DSN 880-4737/Commercial (201) 724-4737

ITEM DESCRIPTION

The Flatrack is a 20' long by 8' wide by 8' high shipping platform with fixed endwalls, open sides and top. The Flatrack is easily accessible to material handling equipment or cranes and is used by the Navy to ship bulky items such as lumber, steel products, and piping. The Army is using the 20' Flatrack to transport high cube munitions such as Lance Main Motor Assemblies.

STATUS

A contract was awarded in August 1989 to Shoals American Industries, Inc., for Flatracks. Deliveries began and were completed in FY90.

During FY91, the Military Sealist Command procured 100 Flatracks for the Army. The Flatracks were procured in support of the retrograde of munitions from Southwest Asia and are now under the control of the Joint Container Control Office.

PROGRAM PLAN

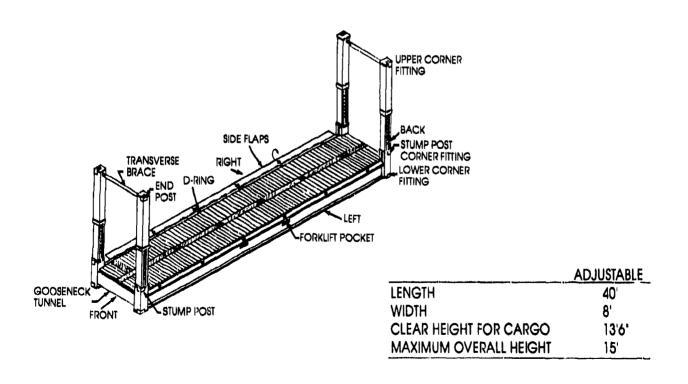
There is no current plan to procure additional quantities by either the Army or the Navy.

NSN

Navy: 8145-01-290-7335 Army: Not yet assigned

40' Heavy Duty Flatrack

	FIXED			UPPER	CORNER
LENGTH	40'				
WIDTH CLEAR HEIGHT FOR CARGO	8' 10'6 "			-	
MAXIMUM OVERALL HEIGHT	13'	TOF		BACK	STUMP
		•	SIDE FLAPS		POST
	M.	TRANSVERSE D-RING			FITTING LOWER CORNER
		RIGHT		The state of the s	FITTING
			FORKLIFT PO	CKETS	
		LEFT			
	GOOSENECK-TUNNEL	N AVIII AD DOOR			
	FR	ONT STUMP POST			



40' Heavy Duty Flatrack

POINT OF CONTACT

Mr. Marty Fink Naval Sea Systems Command, PMS-3853 Arlington, VA 22242-5150 DSN 332-0920/Commercial (703) 602-0920

ITEM DESCRIPTION

The 40' heavy duty flatrack was developed to provide a breakbulk capability to containerships for the carriage of tanks and other heavy and/or outsized cargo. The 40' heavy duty flatrack is a relatively uncomplicated structural steel frame, decked over and fitted with tiedown points. There are two types of flatracks, each having a different cargo capacity. The first type of flatrack has a maximum cargo capacity of 67.2 short-tons and has telescoping comer posts which are adjustable from 8.5' to 13.5' for various cargo heights. The second type of flatrack has a maximum cargo capacity of 72 short-tons and has comer posts 13' high with a clear internal height for cargo of 10.5'. The corner posts on both types fold down to facilitate stacking and storage. These flatracks have been designed with hinged edge flaps installed along one side of the flatrack. The edge flaps have the ability to span the gaps between flatracks in container cells which results in a series of 'tween decks. The flatracks may be inserted/removed into/from the containership cells empty or loaded at a not-to-exceed cargo weight of 30 long-tons (67,200 pounds).

STATUS

The heavy duty flatrack was initially authorized in the FY83 budget for 223 units; the FY84 budget was for 135 units. Delivery of the 358 flatracks was completed during 2QFY86. Two contracts for the second type of flatrack were awarded during 2QFY88. The last flatracks were delivered in September 1992, bringing the total flatrack inventory to 2,360 units. The inventory is at three storage locations: MOT, Bayonne, NJ; NWS, Charleston, SC; and NCBC, Port Hueneme, CA.

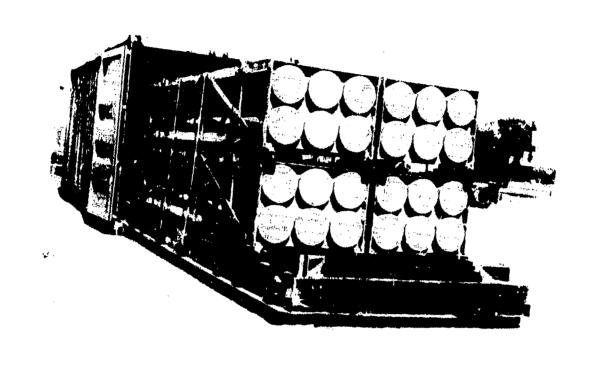
PROGRAM PLAN

Program completed.

NSN

0910-LP-248-8600

Load and Roll Pallet (LRP)



LENGTH	
WIDTH	227'
HEIGHT	871
WEIGHT (empty)	10*
(4)	1,970 pounds
	1. 01100

Load and Roll Pallet (LRP)

POINT OF CONTACT

Mr. Doug Chesnulovitch PM-AMMOLOG, AMCPM-AL Picatinny Arsenal, NJ 07806-5000 DSN 880-4737/Commercial (201) 724-4737

ITEM DESCRIPTION

The Load and Roll Pallet (LRP) is a steel frame platform, with rollers, that measures 89" wide x 227" long x 10" high, weighs 1,970 pounds empty and fits inside of a standard 20' ANSI/ISO container. The LRP allows the user to unload a complete load of four Multiple Launch Rocket System (MLRS) Pods (each weighing 5,078 pounds) or four Army Tactical Missile System (ATACMS) pods from an end opening container. Two 6,000-pound capacity forklifts, or one 10,000-pound capacity or larger forklift, or a tactical cargo vehicle with a winch, or a wrecker, lifts up one end of the fully loaded LRP just high enough to clear the floor of the container and rolls the entire load out of the container. Once outside of the container, the load is fully accessible from the sides to allow rapid unloading of the cargo.

STATUS

Based on the Containerized Ammunition Missile Distribution Executive Group's (CAMDEG) recommendation and approval by the Army's Deputy Chief of Staff for Logistics, 500 LRPs were procured by Military Sealift Command from the Trailer Repair and Fabrication Company, Inc., in August 1991. Delivery of the LRPs was completed in November 1991 and they are under the control of the Joint Container Control Office. Recently a proposal was received, and will be investigated by CAMDEG, for a LRP which would be compatible with the Army's PLS.

PROGRAM PLAN

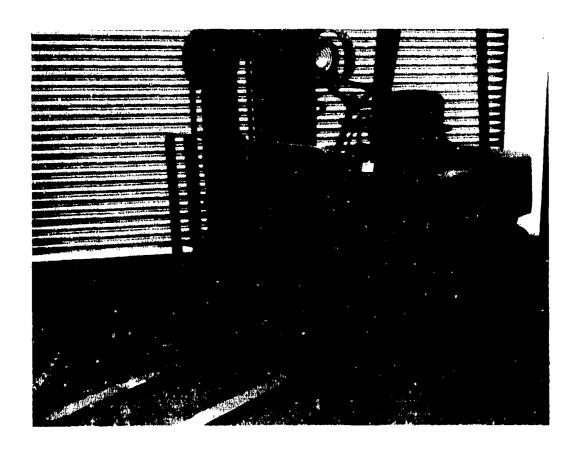
Future needs may require the development of a generic LRP capable of handling a wider variety of ammunition.

NSN

3990-01-364-6273

Part II Container Unloading Equipment

4,000-Pound Capacity Forklift Truck



CAPACITY	4,000 pounds at 24' load center
LENGTH WITH FORKS	145'
WIDTH	45'
HEIGHT WITH ROPS	81'

4,000-Pound Capacity Forklift Truck

POINTS OF CONTACT

Mr. Rolland Riley
US Amiy Belvoir RD&E Center, SATBE-FMR
Fort Belvoir, VA 22060-5606
DSN 654-2317/Commercial (703) 704-2317

COL Larry R. Kearns
Warner Robins Air Logistics Center, WRALC/LV
Robins AFB, GA 31098-5345
DSN 468-2062/Commercial (912) 926-2062

ITEM DESCRIPTION

This forklift provides Air Force bases and Army depots the capability to load and unload palletized cargo from ISO containers. It is a commercial type pneumatic tired forklift with a lift height of at least 144". The forklift has a capacity of 4,000 pounds at a 24" Load Center.

STATUS

The Army has an inventory of approximately 1,700 gasoline engine powered units. In FY85, the Army awarded a 5-year contract to Hyster to procure approximately 1,300 clean-burn, diesel engine powered units. Deliveries of the Hyster trucks were completed during 1991. A Defense Logistics Agency (DLA)-managed indefinite quantity type of contract (DLA 730-92-D-8000) was awarded to Hyster Corporation on 30 April 1992. The Air Force currently has 1,014 units (diesel engine) on contract.

PROGRAM PLAN

The Army will continue to support the fielded forklifts. The Air Force is planning to receive deliveries from the DLA contract beginning in September 1993.

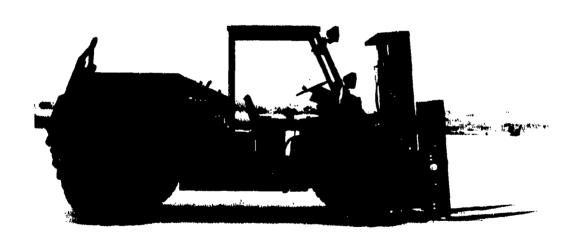
NSNs

Army: 3930-01-172-7891 Air Force: 3930-01-013-0338

4,000-Pound Capacity, Rough Terrain Forklift Truck (4K RTFLT)



J. I. Case Co.



The Enwistle Co.

,000 pounds at 24' load center
05"
9'
0'
0,000 pounds

4,000-Pound Capacity, Rough Terrain Forklift Truck (4K RTFLT)

POINTS OF CONTACT

Mr. David Krawchuk
US Army Belvoir RD&E Center, SATBE-FMR
Fort Belvoir, VA 22060-5506
DSN 654-2314/Commercial (703) 704-2314

CWO4 Ed Deering Commander, Marine Corps Systems: Command, SSEA Quantico, VA 22134-5080 DSN 278-2242/Commercial (703) 640-2242

ITEM DESCRIPTION

The 4,000-Pound Capacity, Rough Terrain Forklift Truck (4K RTFLT) provides the capability of stuffing and stripping the 8' wide family of ISO containers under field conditions. The vehicle is sized to effectively operate within the ISO container including placing two pallet loads side by side and two high within the container. The vehicle weighs approximately 10,000 pounds, is 79" wide, 80" high, and 165" long, excluding forks. The diesel engine powered vehicle is four-wheel drive for rough terrain operation and has freelift and side shift capabilities for operating within the confines of a container.

STATUS

The Army awarded a multi-year contract to J. I. Case Company during FY78. A total of 1,910 forklifts were delivered between August 1980 and July 1984. On 29 October 1990, the Tank-Automotive Command (TACOM) awarded a multi-year contract to the Entwistle Company for a total of 714 vehicles for the Army, with options for an additional 557 vehicles. Preproduction qualification testing of four vehicles was completed and production began in FY93. The Marine Corps bought 280 forklifts from J. I. Case Company during the mid-1970s. In FY85, the Marine Corps awarded a contract to Defense Technology (subsequently a subsidiary of The Entwistle Company) for a quantity of 560 forklifts. The Marine Corps began fielding in June 1990 and completed fielding in January 1991.

PROGRAM PLAN

Perform necessary actions as required to support the fielded forklifts. Following completion of the Army's preproduction qualification testing, production qualification testing will be conducted during 1993, with production deliveries following.

NSNs

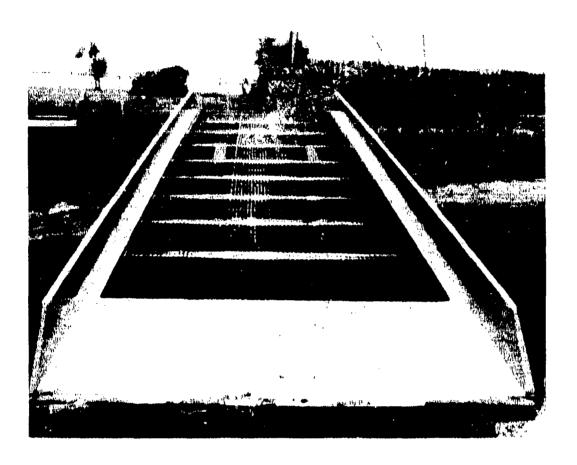
Army J. I. Case: 3930-01-076-4237

Marine Corps J. I. Case: 3930-00-415-0098

Marine Corps new: 3940-01-275-6420

Army Entwistle: 3930-01-330-8907

Mobile Loading Ramp



CAPACITY	16,000 pounds
LENGTH	36' including 6' level-off section
WIDTH	8' approximately
HEIGHT	adjustable from 46" to 65"
WEIGHT	6,000 pounds approximately

Mobile Loading Ramp

POINT OF CONTACT

Mr. David Krawchuk US Ahmy Belvoir RD&E Center, SATBE-FMR Fort Belvoir, VA 22060-5606 DSN 654-2314/Commercial (703) 704-2314

ITEM DESCRIPTION

The Mobile Loading Ramp is used in conjunction with the 4,000-Pound Capacity Rough Terrain Forklift Truck (RTFLT) for stuffing and stripping the 8' wide family of containers when the container is on a semitrailer or truck chassis. The ramp is 96" wide and 36' long, including a 6', level-off section, and weighs approximately 6,000 pounds. The bed height is adjustable from 45 to 65". The ramp is capable of safely supporting loads up to 16,000 pounds. The specification for the Mobile Loading Ramp is MIL-R-52899.

STATUS

A firm fixed price contract was awarded to Magline, Inc., for 83 commercial units. The preproduction testing was completed in March 1976. Production delivery took place as scheduled, from June 1976 through April 1977. A contract was negotiated with Magline, Inc., to increase the curb height to 12" on the 83 fielded ramps to overcome safety deficiencies. A second multi-year contract was awarded in November 1977 to Brooks and Perkins, Inc., to provide an additional quantity of 346 ramps. Under the option in the Brooks and Perkins contract, additional quantities of 346 units were procured. A two-step multi-year procurement contract was awarded to Magline, Inc., in July 1931 for a total of 828 ramps. In all, approximately 1,600 ramps were fielded.

PROGRAM PLAN

Support fielded ramps. There are no plans for additional procurements.

NSNs

3990-01-026-1575—Brooks and Perkins, Inc. 3990-01-059-0104—Magline, Inc. 3990-01-121-7758—Magline, Inc.

6,000-Pound Capacity, Variable Reach Rough Terrain Forklift Truck (6K VRRTFLT)



6,000-Pound Capacity, Variable Reach Rough Terrain Forklift Truck (6K VRRTFLT)

POINT OF CONTACT

Mr. David Krawchuk US Army Belvoir RD&E Center; SATBE-FMR Fort Belvoir, VA 22060-5606 DSN 654-2314/Commercial (703) 704-2314

ITEM DESCRIPTION

The 6,000-Pound Capacity, Variable Reach Rough Terrain Forklift Truck (6K VRRTFLT) provides the capability of loading and unloading 8' x 8' x 20' MILVANs and ISO containers located on the ground or mounted on a trailer under field conditions. The 6K VRRTFLT is also designed to unload the Multiple Launch Rocket System (MLRS) pods from ISO containers.

The 6K VRRTFLT can handle 6,000 pounds at a reach of 15' and 4,000 pounds at a reach of 23.5'. The vehicle weighs 27,100 pounds, is 102" high, 100" wide, and 262" long without forks. The 6K VRRTFLT is replacing the aging fleet of Military Design 6,000-Pound Capacity Rough Terrain Forklifts.

STATUS

The Army Type Classified the 6K VRRTFLT for use in November 1984. TACOM awarded a production contract in January 1988 to TRAK International for 1,686 vehicles. Two contract options have been exercised, bringing the total number of vehicles to 2,050. The Air Force exercised an option for 163 vehicles from the Army's contract. The Air Force vehicles will be nuclear certified for handling munitions and will also be used to tow munitions trailers. Deliveries of the Air Force vehicles were completed 29 May 1992.

PROGRAM PLAN

The Army's production is scheduled to end during 2QFY94.

NSN

3930-01-158-0849

All Terrain Lifter, Articulated System (ATLAS)



All Terrain Lifter, Articulated System (ATLAS)

POINT OF CONTACT

Mr. David Krawchuk
US Army Belvoir RD&E Center, SATBE-FMR
Fort Belvoir, VA 22060-5606
DSN 654-2314/Commercial (703) 704-2314

ITEM DESCRIPTION

The All Terrain Lifter, Articulated System (ATLAS) is a rough terrain variable reach forklift with a maximum lift capacity of 10,000 pounds at a load canter of 48" and a reach of 4'. The ATLAS also has lift capacities of 6,000 pounds at 13' and 4,000 pounds at 23.5', both with a load center of 24". These lift capacities will allow the ATLAS to load and unload 20' long end opening ISO containers located on the ground or on a trailer, up to 5' from the end of the trailer. The ATLAS is self-deployable at speeds up to 45 mph to reduce the need for organic transportation.

STATUS

A Milestone I/II IPR was held in December 1993. The ATLAS ORD was approved in December 1993.

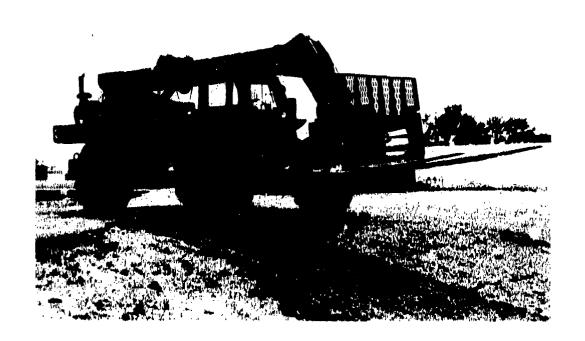
PROGRAM PLAN

Award three Engineering & Manufacturing Development (EMD) contracts in FY94 for four each prototype vehicles. These vehicles will be tested at Aberdeen Proving Ground, MD, and the vehicles which complete testing will be eligible for the Production Contract which will be awarded in FY97.

NSN

Not assigned

Extendable Boom Forklift (EBFL)



Extendable Boom Forklift (EBFL)

POINT OF CONTACT

CWO4 Ed Deering

Commander, Marine Corps Systems Command, SSEA

Ouantico, VA 22134-5080

DSN 278-2242/Commercial (703) 640-2242

ITEM DESCRIPTION

The Extendable Boom Forklift (EBFL) provides the Marine Corps the capability of loading and unloading 8' x 8' x 20' MILVANs and ISO containers located on the ground or trailer mounted, under field conditions. One of the main uses of the EBFL is to unload the Multiple Launch Rocket System (MLRS) pods from ISO containers.

The EBFL has two different carriages. The smaller carriage can handle 4,000 pounds at a reach of 20' and 6,000 pounds at a reach of 10', both measured to the load center. The larger carriage can handle 10,000-pound loads at a reach of 6'. The vehicle weight is 25,600 pounds, and it is 101" high, 102" wide, and 315" long.

STATUS

The Marine Corps awarded a contract to LULL Corporation on 30 September 1988 for 734 EBFLs. First Article Testing was approved during August 1989 and first deliveries began in May 1990. During production, the contract was terminated for default. The Marine Corps still has a requirement for approximately 104 BBFLs. Initial fielding of the EBFL was begun during 20FY92.

PROGRAM PLAN

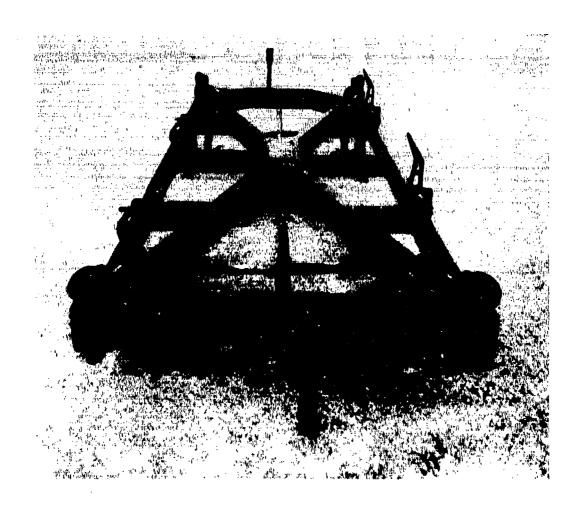
Fill the requirement for the vehicles not received under contract.

NSN

3930-01-305-2111

Part III Container Handling Equipment

Spreader Bars, Intermodal Container Handling



	20 FOOT	40 FOOT
CAPACITY	44,800 pounds	67,200 pounds
LENGTH	19' 10'	40'
WIDTH	7' 11 '	7' "
HEIGHT	1' 6 '	1' 6"
WEIGHT	3,000 pounds	5,000 pounds

Spreader Bars, Intermodal Container Handling

POINT OF CONTACT

Mr. Rolland Riley
US Army Belvoir RD&F Center, SATBE-FMR.
Fort Belvoir, VA 22060-5606
DSN 654-2317/Commercial (703) 704-2317

ITEM DESCRIPTION

The Spreader Bars are connected by slings to the hook of a crane such as the Rough Terrain Container Crane (RTCC) or the 140-Ton Truck-Mounted Container Handling Crane and are used to handle ISO and other intermodal containers. The Army has two types of the Spreader Bars. One type is for handling 20' long containers and the other type is for handling 40' long containers. Both Spreader Bar types conform to the requirements of the Military Specification MIL-S-52713. Both types are of a fixed frame design and have manually locking twist locks.

STATUS

A contract was awarded in FY87 to Isometrics, Inc., for 476 20' spreaders and 154 40' spreaders. These spreaders were procured in support of the RTCC. First Article Testing of the spreaders was conducted in two phases: the first phase was successfully conducted at the manufacturers facilities, and the second phase was conducted in conjunction with the First Article Test for the RTCC.

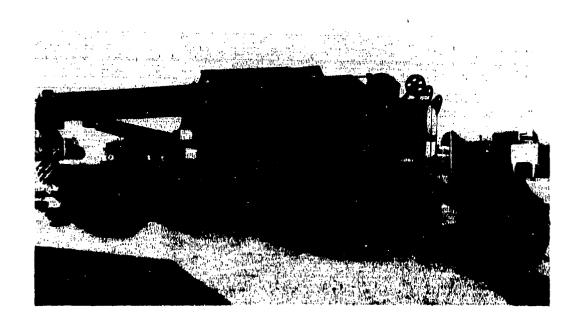
PROGRAM PLAN

No additional procurement actions are scheduled.

NSNs

20': 3990-01-258-2010 40': 3990-01-258-2011

Crane, 14-Ton, Wheel-Mounted ISO Container Handling



Crane, 14-Ton, Wheel-Mounted ISO Container Handling

POINT OF CONTACT

Mr. David Ha
Naval Construction Battalion Center (CESO Code 1532DH)
Port Hueneme, CA 93043-4300
DSN 551-3161/Commercial (805) 982-3161

ITEM DESCRIPTION

This crane is designed to handle 20' ISO containers with a 25,000 pound maximum gross weight in loading and off-loading trucks/trailers under field conditions. Powered by hydrostatic drive to the front wheels, it provides a self-propelled speed of 5 mph and a maximum towed speed of 5 mph. The crane is air transportable in C-130 aircraft via the use of a swing down center weight equipped with a third axle to distribute the vehicle weight over three axles.

STATUS

A contract was awarded in January 1990 to SpanDeck, Inc., for 44 units. Delivery of all units was completed in 1992.

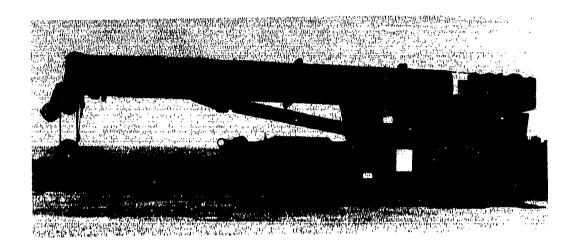
PROGRAM PLAN

There are no further program plans.

NSN

3810-01-198-0079

Rough Terrain Container Crane (RTCC)



44,800 pounds at 27'
548*
145'
153'
108,750 pounds

Rough Terrain Container Crane (RTCC)

POINT OF CONTACT

Mr. Victor Batson US Army Belvoir RD&E Center, SATBE-FMR Fort Belvoir, VA 22060-5606 DSN 654-2315/Commercial (703) 704-2315

ITEM DESCRIPTION

The RTCC is a commercially designed wheel-mounted crane. The RTCC is capable of lifting a 20' container weighing 44,800 pounds at a radius of 27' and a 35'/40' container weighing 67,200 pounds at a radius of 22'. General Support (GS) ammunition units use the RTCC "from a fixed position" for transfer of 20' ANSI/ISO containers from one mode of transportation to another or to ground/load containers from/to waiting transportation in the Theater and Corps ammunition storage areas. Transportation units use the crane to augment the 50,000-Pound Rough Terrain Container Handler in the transfer and handling of 20', 35', or 40' containers and other cargo between transportation modes and in storage areas.

STATUS

A Market Investigation was completed in FY85 and a purchase description prepared in FY86. Two candidate cranes were leased and evaluated during 3QFY85. The crane was type classified standard in August 1985, and was transitioned to the US Army TACOM. A contract was awarded to Grove Manufacturing Company on 24 November 1986 for 254 vehicles. Preproduction testing was conducted 1QFY88 to 4QFY88. Initial production testing was completed 2QFY89. Delivery of the RTCC commenced during June 1989 and was completed in January 1992.

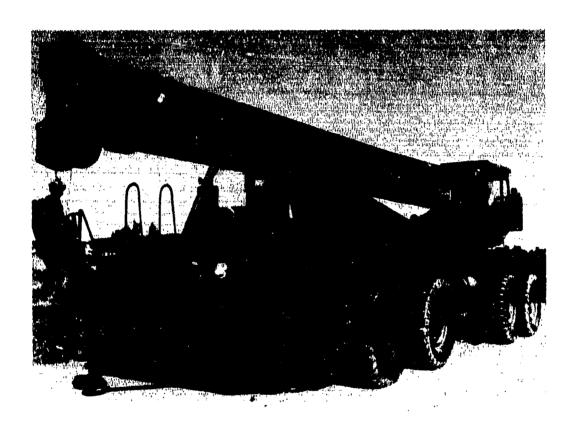
PROGRAM PLAN

Support fielded cranes.

NSN

3810-01-205-2716

Crane, High Speed, High Mobility



	OPERATING MODE	SHIPPING MODE
WEIGHT	69,825 pounds	69,825 pounds
WIDTH	102''	102''
LENGTH	499.8"	499.8''
HEIGHT	138.9''	138.9"
CUBE	4,097.8'3	4,097.8' ³
SQURE STOWAGE	354'3	354'3

Crane, High Speed, High Mobility

POINT OR CONTACT

CWO4 Ed Deering
Commander, Marine Corps Systems Command, SSEA
Quantico, VA 22134-5080
DSN 278-2242/Commercial (703) 640-2242

ITEM DESCRIPTION

The Crane, High Speed, High Mobility is a diesel-powered, rubber-tired crane with a hydraulic boom and the capability to mount/operate the Pile Driver. It is capable of all general crane operations, clamshell, container handling, and general lifting up to 50,000 pounds. It is capable of operating over rough terrain and in 60 inches of water. The Heavy Crane attachments include: Pile Driver, Self-Powered, Diesel (TAMCN U3195); Bucket, Concrete (TAMCN B0176); and Bucket, Clamshell (TAMCN B0171).

STATUS

FY67 funds were appropriated for the production procurement of 246 High Speed, High Mobility Cranes to complete the Marine Corps Acquisition objective. All High Speed, High Mobility Cranes have been delivered to MCLB's.

PROGRAM PLAN

No additional procurement actions are planned.

NSN

3810-01-320-1920

140-Ton, Truck-Mounted, Container Handling Crane



CAPACITY
LENGTH WITH 50' BOOM
WIDTH
132.5'
HEIGHT
WEIGHT WITH 120' BOOM
195,000 pounds

140-Ton, Truck-Mounted, Container Handling Crane

POINT OF CONTACT

Mr. Victor Batson US Army Belvoir RD&E Center, SATBE-FMR Fort Belvoir, VA 22060-5606 DSN 654-2315/Commercial (703) 704-2315

ITEM DESCRIPTION

The 140-ton crane is a commercial designed crane. It is truck-mounted, and has 140-ton maximum capacity at a reach of 12'. It has an 8' x 4' truck chassis and a 50' basic boom which can be extended in length up to 130' with the use of various lengths of lattice boom. The crane is used in the loading and unloading of containers from ships in a fixed port operation or landing craft in a Logistics-Over-The-Shore (LOTS) operation and for handling containers in a marshalling area and terminal sites. In a LOTS operation, the 140-ton crane is used on causeway sections to transfer containerized cargo from displacement craft to transport vehicles and on the beach to transfer containerized cargo from hovercraft to the beach.

STATUS

Initially, two cranes were procured from Harnischfeger Corporation (P&H) for testing in FY75. Two additional cranes were procured from Harnischfeger Corporation in FY77. A multi-year contract was awarded to FMC Corporation in September 1980 for 28 cranes. Deliveries began in January 1982 and were completed during FY85.

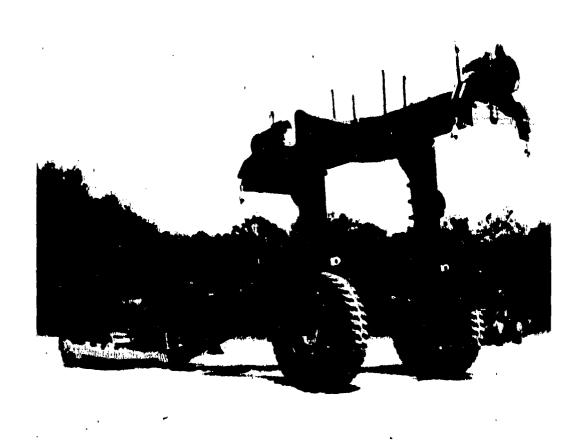
PROGRAM PLAN

There are no plans for additional procurements.

NSNs

P&H-3950-01-027-9254 FMC-3950-01-110-9224

Lightweight Amphibious Container Handler (LACH)



Lightweight Amphibious Container Handler (LACH)

POINT OF CONTACT

CWO4 Ed Deering Commander, Marine Corps Systems Command, SSEA Quantico, VA 22134-5080 DSN 278-2242/Commercial (703) 640-2242

ITEM DESCRIPTION

The LACH is a straddle-lift type, towed, two-wheel mounted, container handler. The LACH is capable of lifting and carrying containers, ramp entry into large landing craft, and loading and unloading containers onto/from cargo trailers during amphibious operations. The LACH, when propelled by its prime mover (medium size bulldozer), can be maneuvered in the surf zone in up to 5' of water with a 20' container weighing up to 50,000 pounds.

STATUS

FY81 funds were appropriated for the production procurement of 56 LACHs to complete the Marine Corps inventory objective. All LACHs have been delivered to MCLBs. Each Maritime Prepositioning Ship Squadron were equipped with four LACHs.

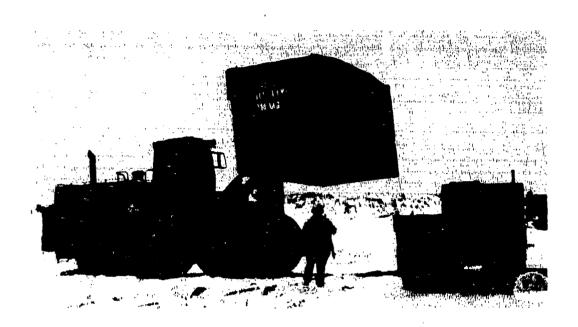
PROGRAM PLAN

No additional procurement actions are planned.

NSN

3920-01-143-9607

50,000-Pound Container Handler, Rough Terrain (RTCH)



CAPACITY		50,000 pounds at 48" load center	
LENGTH WITH FORKS		420'	
WIDTH		138'	
HEIGHT		167'	
WEIGHT WITHOUT TOP HANDLER		103,000 pounds	
TOP HANDLER WEIGHTS:	20'	3,800 pounds	
	35'	9,120 pounds	
	4 0'	9.927 pounds	

50,000-Pound Container Handler, Rough Terrain (RTCH)

POINTS OF CONTACT

Mr. Norman Fertman

US Army Belvoir RD&E Center, SATBE-FMR

Fort Belvoir, VA 22060-5606

DSN 654-2312/Commercial (703) 704-2312

CWO4 Ed Deering

Commander, Marine Corps Systems Command, SSEA

Quantico, VA 22134-5080

DSN 278-2242/Commercial (703) 640-2242

COL Larry R. Kearns

Warner Robins Air Logistics Center, WRALC/LV

Robins AFB, GA 31098-5345

DSN 468-2062/Commercial (912) 926-2062

ITEM DESCRIPTION

The RTCH provides a capability of handling the 8' wide family of containers weighing up to 50,000 pounds and 20', 35', and 40' long. It is a rough terrain truck designed for operating on soft soil conditions such as unprepared beaches. The RTCH is four wheel drive and capable of fording in up to 5' of saltwater. The RTCH is a modified commercial design and procured to a military specification. The vehicle weighs approximately 103,000 pounds, is 138" wide, 167" high, and 35' long. Top handlers— 20', 35', or 40' long-are placed on the forks of the RTCH to allow for handling the three different lengths of ISO containers.

STATUS

The Army awarded a multi-year contract to the Caterpillar Tractor Company for 177 vehicles in September 1978 and then exercised options bringing the total number of vehicles procured to 344. Of this number, the Air Force procured three for use with Containerized Ammunition Distribution Systems (CADS) shipments, and the Marine Corps procured 21. The Marine Corps increased their quantity to a total of 106 by awarding a contract for the additional RTCHs which were delivered in FY88. In FY89, the Air Force procured and fielded nine additional vehicles. In February 1991, the Air Force awarded a contract to Lift King for six vehicles and then exercised an option for six additional vehicles. On 12 March 1992, Volpe National Transportation System Center awarded a contract to Caterpillar for 62 fork kits for the Army's vehicles. These fork kits allow the RTCH to pick up half-height containers from the ground and were fielded between April and September 1992.

PROGRAM PLAN

The Air Force is scheduled to received delivery of twelve vehicles in August 1993. Planned Air Force procurements consist of ten vehicles in FY94.

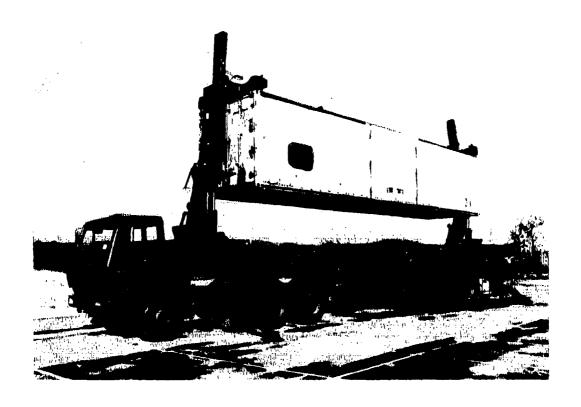
NSNs

Army/Marine Corps: 3930-01-082-3758

Air Force:

3930-01-307-3658CT

20'/40' Container Sideloader



20'/40' Container Sideloader

POINT OF CONTACT

Mr. Walt Allenbacher HQ US Air Force Europe, LGTT Ramstein AB, GE, 3050 Box 105, APO AE 09094 DSN 480-6321/7468/Commercial 06371-47-6321/7468

ITEM DESCRIPTION

This diesel-powered container sideloader is capable of transferring or self-loading and transporting 20' through 40' ISO containers or tactical shelters. Maximum lifting capability is 66,150 pounds, with an additional 10 percent safety factor built-in. The unit has a telescopic spreader bar for 20', 35', and 40' containers, and can also lift containers with slings. The sideloaders can transport containers within maximum road height limitations. They also have an air ride suspension making them viable to transport ISO containers carrying delicate equipment. The unit is self-deployable by road and by C-5 military airlift. An optional 26-ton tractor is used to pull the sideloader.

STATUS

Four Klaus handlers were procured by the Army for Miesau Army Ammo Depot in 1972 to meet an urgent requirement for container handling. A BeSima/Marmon handler and a Steadman handler were procured by the Army and evaluated by Belvoir RD&E Center in 1975-76. The Steadman handler was subsequently provided to ASP-1 Vilseck, Germany. In August 1978, four additional Klaus handlers with tractors were procured for Army use at ASP-1. In 1982, the Air Force successfully tested the use of a sideloader (on loan from the Army) during an Air Force Containerized Ammunition Distribution System (CADS) movement to Germany. USAFE purchased two sideloaders in early 1984 under the Productivity Investment Program. These sideloaders were used successfully to support several CADS movements in both MILVANs and SEAVANs during 1984. USAFE bought 27 additional 40' sideloaders between FY86 and FY88. The sideloaders are used throughout Europe to support CADS and ISO container movements. USAFE bought and fielded six 20' capacity sideloaders during FY90. The 20' sideloaders have enabled USAFE to increase maneuverability in close areas. USAFE has a total of 35 sideloaders in use at 15 bases (29 each 20/40' and 6 each 20'). The Army has obtained additional sideloaders and has met its inventory objective of eighteen 20' containers, 44,800-pound capacity sideloaders for use in Germany.

PROGRAM PLAN

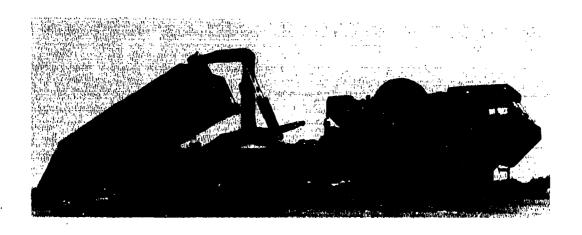
There are no additional plans for procurement.

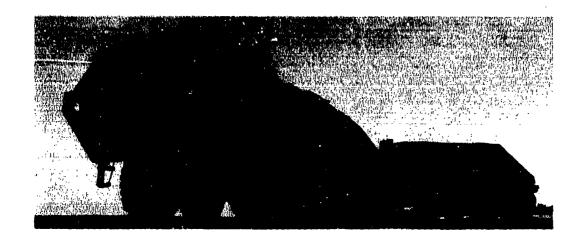
NSNs

40': 3810-01-228-0190CT

20': Unknown

Palletized Load System (PLS)





Palletized Load System (PLS)

POINT OF CONTACT

COL Hugh McLeod III US Army Tank-Automotive Command, SFAE-CS-TVH Warren, MI 48397-5000 DSN 786-5800/Commercial (313) 574-5800

ITEM DESCRIPTION

The Palletized Load System (PLS) consists of a standard mobility heavy truck chassis, an integral hydraulic load handling mechanism, a compatible trailer, and a number of flatracks. The system is capable of self-loading and self-unloading the flatracks from the ground onto the truck chassis using the integral load handling system. The vehicle-mounted load handling system also has the capability to load and unload flatracks onto the companion trailer. Both the truck and the companion trailer have a 16.5-ton payload capacity.

STATUS

Three heavy (15-ton payload) PLSs were evaluated for 2 years by ADEA and the 9th ID at Fort Lewis, WA. Three additional heavy and 15 medium (7.5-ton payload) PLSs were evaluated by ADEA between 2QFY85 and 2QFY86. Under a separate program, the TACOM leased 46 PLSs of 10- and 15-ton payloads for use in Force Development Test and Evaluation (FDTE) at Fort Hood, TX, during 1QFY87. The results showed the advantages of PLS in the distribution of ammunition. In January 1989, TACOM awarded three prototype contracts to General Motors, PACCAR and Oshkosh. Competitive testing between the three contractors was conducted from September 1989 through March 1990 at Aberdeen Proving Ground (APG), MD, Yuma Proving Ground (YPG), AZ, and Fort Carson, CO. This testing involved nine trucks, six trailers, and 30 flatracks from each of the three contractors. Based on the test results, system costs, and production proposals, the Source Selection Board chose the Oshkosh vehicle over the other two competitors' vehicles. In September 1990, the Defense Acquisition Board (DAB) approved and released funds for the PLS. The PLS contract is a 5-year multi-year, \$860 million contract for approximately 2,626 PLS trucks, 1,050 trailers, and 11,030 flatracks with Oshkosh.

During FY92 the PLS underwent Production Qualification Testing at APG and YPG and accumulated over 120,000 endurance miles. The PLS also underwent Initial Operational Testing at Fort Hood, TX, and cold weather testing at Fort Greeley, AK. Based on the test and evaluation results the PLS was approved for Full Rate Production at a Milestone III Army System Acquisition Review Council (ASARC) in December 1992.

PROGRAM PLAN

The fielding plan calls for FUE in 1QFY94.

NSNs

Truck with MHE Crane: 2320-01-304-2277
Truck: 2320-01-304-2278
Trailer: 2330-01-303-5197
Flatrack: 3990-01-307-7676

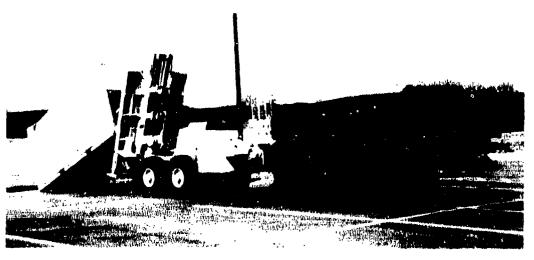
Logistics Vehicle System



MK 48/MK 14



MK 17



MK 18

Logistics Vehicle System

POINT OF CONTACT

MAJ John Wozniak
Marine Corps Systems Command, Code SSCMT
Quantico, VA 22134-5080
DSN 278-4291/Commercial (703) 640-4291

ITEM DESCRIPTION

The Logistics Vehicle System consists of one front power unit (MK48) and any one of five rear body unit configurations. The MK14 Container Hauler is an ISO twist-lock equipped, 22.5-ton capacity; rear body unit designed to transport standard ISO 8' x 8' x 20' containers, shelters, and modules. The MK17 Dropside Cargo with crane is a rear body unit with an 8' x 16' loading area designed as a troop carrier as well as a carrier for fuel/water modules, and 8' x 8' x 10' shelters/containers. The MK18 Self-Loading Ribbon Bridge Transporter/Container Handler is a hydraulically powered tilt bed rear body unit designed to load/offload ISO containers, ribbon bridge components or fill material without the assistance of material handling equipment.

STATUS

Approval for service use for the MK48 Front Power Unit and MK14 Container Hauler Rear Body Unit was obtained in July 1982. Approval for the MK17 Dropside Cargo variant was obtained in August 1983. A 5-year letter contract was signed in September 1983 for 1,433 units with options extending the total to 1,686 total Logistics Vehicle Systems. The Logistics Vehicle System consisting of the MK48/14/17 began delivery to selected units in August 1985 with a subsequent Initial Operational Capability (IOC) of March 1986. Production deliveries were completed September 1989. The MK18 R&D prototype testing commenced 3QFY88 and a Milestone III was held on 9 January 1990. Production contract award for a base quantity of 100 units occurred in February 1990; the first option for 110 units was exercised in July 1990. Delivery of production vehicles commenced January 1991. A second option for 110 units was exercised 1QFY92 bringing the total to 320 units under contract.

PROGRAM PLAN

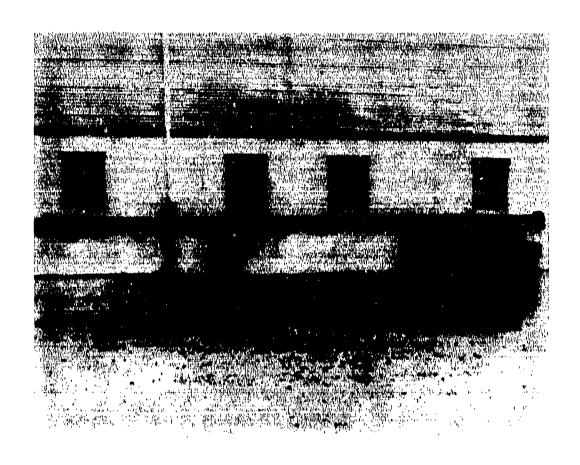
Delivery of 320 MK18 units purchased under the February 1990 contract was completed in May 1993. Action has been initiated to purchase an additional 168 units with an anticipated contract award date of February 1994. A separate action is also continuing on a rebuy of the Logistics Vehicle System. The requirement will be for a mix of MK48's, MK14' and MK17's for a total of 164 units. The anticipated contract award for this action is April 1994.

NSNs

MK48: 2320-01-177-5162 MK14: 2320-01-176-0469 MK17: 2320-01-176-0468 MK18: 2320-01-324-5915

Part IV Ground Transportation Equipment

Chassis, Semitrailer: Coupleable, MILVAN Container Transporter



	20' UNIT	20' UNIT	40' UNIT
	SINGLE BOGIE	DOUBLE BOGIE	DOUBLE BOGIE
LENGTH	242'	242'	484"
WIDTH	96'	96"	96'
HEIGHT*	53.5 "	53.5*	53.5'
WEIGHT	4,000 pounds	5,850 pounds	8,000 pounds

^{*}Height when unloaded and supported on landing legs with deck level.

Chassis, Semitrailer: Coupleable, MILVAN Container Transporter

POINT OF CONTACT

Ms. Alice Maximovitch
US Army Tank-Automotive Command, AMSTA-FTM
Warren, MI 48397-5000
DSN 786-6110/Commercial (313) 574-6110

ITEM DESCRIPTION

The MILVAN chassis was procured to attain a military owned, centrally controlled fleet for movement of military and commercial ISO containers over primary hard surface roads principally in CONUS. The chassis consists of a 20' frame, landing gear, and single-axle bogie. The bogie is movable along the length of the frame. The frame has provisions for coupling two 20' units to form a 40' chassis, with the bogies under the rear frame to form a tandem-axle configuration. Each frame has twist locks to accept ISO containers. There is provision for lowering the twist locks flush with the top of the frame so that 40' containers can be transported on a coupled chassis. The MILVAN chassis was competitively procured from industry utilizing a military performance specification.

STATUS

The MILVAN chassis is currently deployed. From 1969-71, 5,620 were procured; 1,479 are currently in inventory. A 4-year overhaul program for 700 units was begun in FY84, and was completed in December 1989.

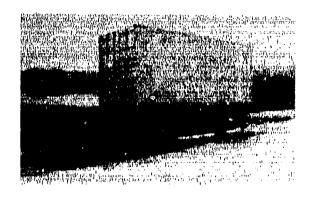
PROGRAM PLAN

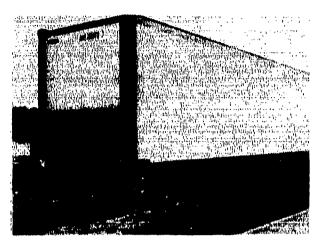
There is no current plan to procure additional units or initiate additional overhauls.

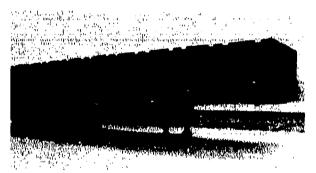
NSN

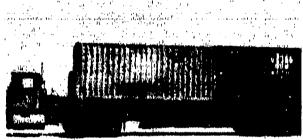
2300-00-168-2259

Semitrailer, Linehaul, Breakbulk/Container, M872 Series









CURB WEIGHT	17,400 pounds	TIRES	10:00 V 20 tuba tuma
	•	• • • • • • • • • • • • • • • • • • • •	10:00 X 20 tube type
RATED PAYLOAD	67,200 pounds	BRAKES	cam/air
GROSS WEIGHT	84,600 pounds	ELECTRICAL	12/24 volt
O'VERALL LENGTH	489'	LANDING GEAR	hand/mechanical
OVERALL WIDTH	96"	SIDE PANEL HEIGHT	48'
PLATFORM HEIGHT	59**	CONTAINER LOCKS	20', 35', 40', 24', 5',
FIFTH WHEEL HEIGHT	50' loaded		$6^2/3^1$, and 10^1

^{*}Height when unloaded and supported on landing legs with deck level

Semitrailer, Linehaul, Breakbulk/Container, M872 Series

POINT OF CONTACT

Mr. Michael Decker

US Army Tank-Automotive Command, AMSTA-FTH

Warren, MI 48397-5000

DSN 786-5605/Commercial (313) 574-5605

ITEM DESCRIPTION

The M872 Series Semitrailers are commercial design flatbed semitrailers of 34-ton capacity used in the linehaul of containers, breakbulk cargo, and M113 Armored Personnel Carriers (APCs). The M915/M915A1 truck tractor is the prime mover.

STATUS

Procurement of the total requirement of 8,656 semitrailers was accomplished by five separate contracts as follows:

Model	Contractor	Quantity
M872	Theurer	1,364
M872	Southwest	1,304
M872A1	Theurer	2,713
M872A1	Heller	212
M872A2*	Theurer	125
M872A2*	Heller	125
M872A3	Southwest	2,813
		8,656 Total

^{*} Model M872A2 has a tapered gooseneck configuration which has been modified by installing a saddle to the gooseneck.

All contracts are complete. All medium transportation companies have 100% fill of the M872.

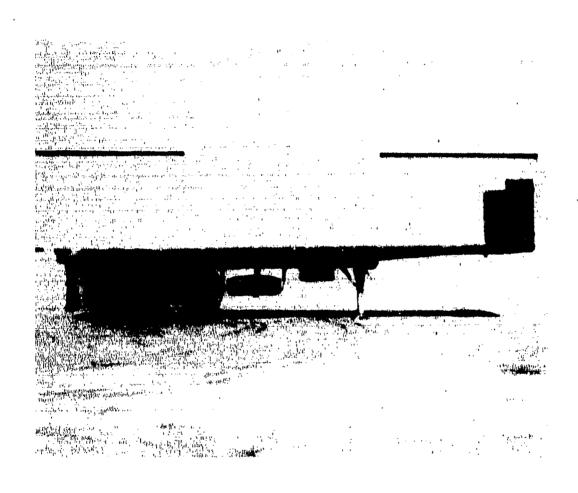
PROGRAM PLAN

Provide support for fielded items.

NSNs

M872: 2330-01-039-8059 M872A2: 2330-01-119-5837 M872A1: 2330-01-109-8006 M872A3: 2330-01-142-1385

Semitrailer, Tactical, Dual Purpose Breakbulk/Container Transporter, 22¹/2-Ton, M871 Series



RATED PAYLOAD	44,800 pounds	TIRES	11:00 X 20
OVERALL LENGTH	358'	ELECTRICAL	12/24 volt
OVERALL WIDTH	96"	LANDING GEAR	hand/mechanical
PLATFORM HEIGHT	55**	CONTAINER LOCKS	20', 10', 6 ² / ₃ ', and 5'

^{*}Height when unloaded and supported on landing legs with deck level

Semitrailer, Tactical, Dual Purpose Breakbulk/Container Transporter, 22¹/2-Ton, M871 Series

POINT OF CONTACT

Mr. Michael Decker
US Army TACOM, AMSTA-FTH
Warren, MI 48397-5000
DSN 786-5605/Commercial (313) 574-5605

ITEM DESCRIPTION

The M871 is a commercial design tactical semitrailer whose primary application will be the delivery and retrograde of ISO containers and shelters up to 20' long, and breakbulk cargo in an overseas theater of operation between the Corps General Support Supply Activities (GSSA) and the Division Support Command (DISCOM). On occasion it may also be used to deliver containers to forward distribution points or to using units. The prime movers in these roles will be the M818, M915, and M932 truck tractors. The tactical semitrailer will also be used on the linehaul mission as a means of clearing 20' or smaller containers from the port area. The prime mover in this role will normally be the M915 linehaul tractor.

STATUS

A flatbed configuration was selected by the Logistics Center in December 1977, after consideration was given to the conflicting requirements dictated by breakbulk and container transport mission. A quantity of 3,325 trailers was procured and fielded under a 5-year multi-year contract awarded to Southwest Truck Body in March 1979. A quantity of 246 M871A1 trailers was procured and fielded under a contract awarded in May 1985 to Shoals American Industries, Inc. Deployment of the M871/M871A1 has been completed. A 3-year contract for the M871A2 was awarded in September 1988 to Dynaweld, Inc., fcr 1,089 units with 100% options per year. Initial Production Testing of the M871A2 was completed in September 1990 and delivery began in October 1990.

PROGRAM PLAN

Provide support for fielded items.

NSNs

M871: 2330-00-122-6779 M871A1: 2330-01-226-0701 M871A2: 2330-01-294-3367

Truck Tractor, Yard Type, 4 x 2, M878A1



CURB WEIGHT	16,280 pounds
OVERALL LENGTH	182.5"
OVERALL WIDTH	98.125"
OVERALL HEIGHT	120'
WHEEL BASE	116'
FIFTH WHEEL HEIGHT	8" to 64"

Truck Tractor, Yard Type, 4 x 2, M878A1

POINT OF CONTACT

Mr. Darryl Whitaker US Army Tank-Automotive Command, AMSTA-FTM Warren, MI 48397-5000 DSN 786-6506/Commercial (313) 574-6506

ITEM DESCRIPTION

The yard type truck tractor is primarily used to provide a capability to shuttle semitrailers loaded with containers or breakbulk cargo within fixed ports, on prepared beaches during Logistics-Over-The-Shore (LOTS) operations, and in trailer transfer areas. The vehicle is a highly maneuverable commercial tractor with an automatic locking, hydraulic-lift fifth wheel which facilitates semitrailer coupling and disengagement, and allows movement of the semitrailer/chassis without retracting the landing legs. It is capable of moving vehicles weighing between 21,000 and 60,000 pounds.

STATUS

Twenty-eight trucks were competitively procured from Ottawa Truck Company for use during Joint-Logistics-Over-The-Shore (J-LOTS) testing in 1977. Based on the favorable results of this test, 16 additional trucks were ordered. The truck passed all First Article Tests, and a third buy contract was awarded to Ottawa Truck Company for a quantity of 175 trucks. Of these 175 vehicles, 56 were issued in 1983 to fill initial CONUS requirements. A full AR 700-34 release of the M878A1 was granted in October 1985. Forty-three trucks have been deployed to USAREUR and nine deployed to Korea. Twenty-six vehicles were fielded to CONUS units in FY90, and 27 were issued in support of Operation Desert Shield/Desert Storm.

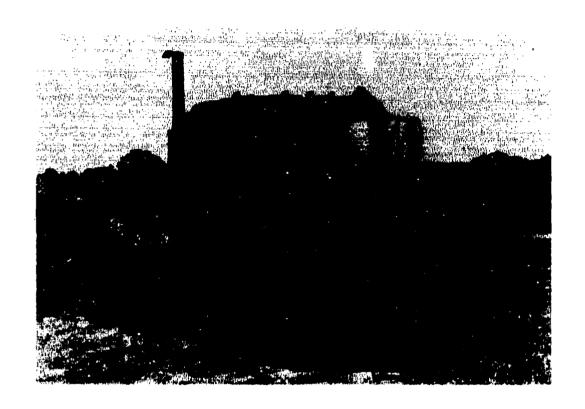
PROGRAM PLAN

Continue to fully support fielded vehicles. There are no current plans for additional procurements.

NSN

2320-01-121-2102

Truck Tractor, Linehaul 6 x 4, M915 Series



Truck Tractor, Linehaul 6 x 4, M915 Series

POINT OF CONTACT

Mr. Mario Musotto
US Army Tank-Automotive Command, SFAE-CS-TVH
Warren, MI 48397-5000
DSN 786-8065/Commercial (313) 574-8065

ITEM DESCRIPTION

The M915 Series tractors are military adaptations of commercial 6 x 4 tractors. The M915 is the on-road prime mover for the M872 series Breakbulk/Container Transporter Semitrailer (105,000-pound Gross Combination Weight Rating) and is used in linehaul operations from the port of debarkation to the division rear boundary. It partially replaces or augments the M818/M931 5-ton Tactical Tractor fleet. The M915 was part of a single procurement action which fielded a six-vehicle family. The other vehicles within the combined procurement were the M916 Light Equipment Transporter, M920 Medium Equipment Transporter, M917 20-Ton Dump Truck, M918 Bituminous Distributor, and M919 Concrete Mobile.

The M915A1 is a rebuy of the M915 and it has been improved to include state-of-the-art advances in heavy truck technology. It is intended for linehaul operation from the port of debarkation to the division rear boundary. While the M915A1 is used primarily with the M872 series semitrailers, it is capable of operating with a variety of military and commercial trailers.

The M915A2 is a later version of the M915A1. It has a dual purpose of being the prime mover for the M1062, a 7,500 gallon petroleum tanker, as well as the M872 semitrailers.

STATUS

Four M915s with companion M872 semitrailers satisfactorily completed Force Development Test and Evaluation (FDTE) at Fort Campbell, KY, between January and April 1979. Production was completed in June 1980 and the entire fleet of 2,498 M915 tractors has been fielded. AM General produced 2,342 M915A1s. Deployment to USAREUR, US Army Reserves, and Army National Guard was made between August 1983 and July 1984 to 37 Medium Transportation Companies.

In September 1988, a contract was awarded to Freightliner Corp. to produce the M915A2 tractor. There are 769 M915A2s on contract with options for more. Production Approval was granted to Freightliner in December 1990.

Production has been completed on the M915A2.

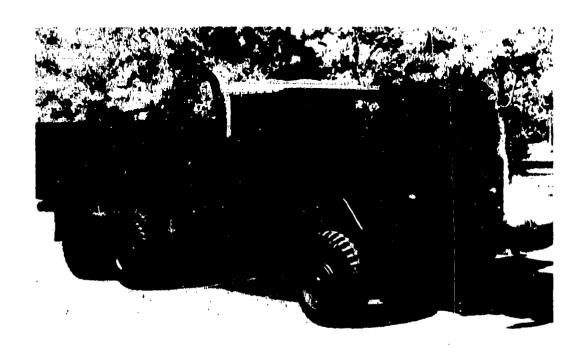
PROGRAM PLAN

Handoff of the M915A2s to the field will be completed during FY93.

NSNs

M915: 2320-01-028-4395 M915A1: 2320-01-272-5029 M915A2: 2320-01-028-4396

5-Ton Truck Bed with ISO-Configured Locking Devices



5-Ton Truck Bed with ISO-Configured Locking Devices

POINT OF CONTACT

CAPT Vernon Prevatt
Commander, Marine Corps Systems Command (SSCMT)
2033 Barnett Avenue, Suite 315
Quantico, VA 22134-5010
DSN 278-4281/Commercial (703) 640-4281

ITEM DESCRIPTION

The ISO-configured truck bed is a modification to the existing 5-ton trucks with 14' and 20' cargo beds. The 14' bed will transport two SIXCON containers while the 20' bed will transport one 20' long ISO container, two 10' long ISO containers, or four QUADCONs.

STATUS

A contract was definitized on 26 March 1990 for a total of 1,198 5-ton truck beds; 1,182 14' beds; and 16 20' beds. A solicitation has been issued for a rebuy to complete fielding on all cargo trucks. Anticipated contract award is November 1993.

PROGRAM PLAN

Shipment of the beds will commence by 4QFY93. The truck beds will be delivered to the 5th echelon depot maintenance activities where the beds will be placed on trucks during the inspection and repair program. Plans are to outfit all of the Marine Corps 5-ton trucks over the next 6 years.

NSNs

M813A1: 2320-01-329-7162 M923: 2320-01-333-4129 M927: 2320-01-333-2956

Truck, Stake, 6 x 6, 15-Ton, 46,000 GVW, with ISO Lock



Truck, Stake, 6 x 6, 15-Ton, 46,000 GVW, with ISO Lock

POINT OF CONTACT

Mr. David Ha

Naval Construction Battalion Center (CESO Code 1532DH)

Port Hueneme, CA 93043-4300

DSN 551-3161/Commercial (805) 982-3161

ITEM DESCRIPTION

Truck, Stake, 6 x 6, 15-ton, 46,000 GVW with 34,000 pound rear axles, 12,000 pound front axles minimum, diesel engine-driven (DED), automatic transmission, trailer towing package. Limited slip differentials, lifting and tiedown brackets. Fold down troop seats and cargo bed cover with bows. Bed is 20' in length with ISO twist lock in corners of body capable of accepting a 20' ISO container. Air transportable in C-130 aircraft.

STATUS

The Navy has procured 186 trucks in prior years through multiple contracts. A contract was awarded in FY91 to Navistar International, Inc., for 47 trucks. The contract contains options that could be exercised to obtain additional quantities.

PROGRAM PLAN

The Navy has programmed for procurement the following quantities of trucks during the years indicated:

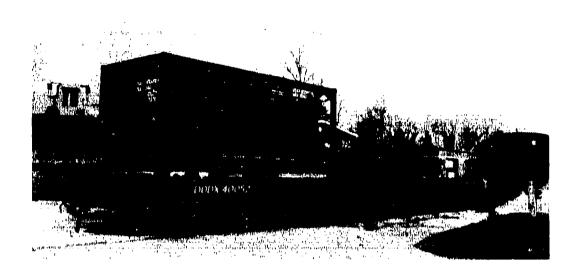
FY92	FY93	FY94	FY95
126	50	50	50

NSN

2320-01-195-0532

89

Railway Car, Flat (Heavy Duty), 150-Ton Capacity, Domestic Service



Railway Car, Flat (Heavy Duty), 150-Ton Capacity, Domestic Service

POINT OF CONTACT

Mr. Harold Ranslem
US Army Belvoir RD&E Center, SATBE-FMT
Fort Belvoir, VA 22060-5606
DSN 654-2325/Commercial (703) 704-2325

ITEM DESCRIPTION

The 150-ton flat car is designed for unrestricted interchange use while transporting both oversized tracked and wheeled vehicles and multiple ANSI/ISO containers loaded with Class A explosives and other commodities. The all-steel car is equipped with integral securement systems to restrain both tracked/wheeled vehicles and ISO containers. For ISO containers, the securement system accommodates a single 40' container, three 20' containers, or a combination of both sizes. The twist locks are of the pedestal type that lock automatically when the container is set in place and release automatically when the containers are lifted. The flat car is approximately 68' long; 10' 5" wide; and is supported by two three-axle trucks. The car is designed to carry a capacity of 150 tons.

STATUS

Four production contracts yielding 574 cars have been completed. These cars have been fielded and are managed by MTMC. A contract for 20 150-ton capacity cars was awarded in FY90 to General Railroad Group and fielding was completed during FY93. These cars will be used by the Navy and will not have the same securement systems as the previous cars. These cars will be used to transport special loads using the Navy's securement system. Production of the 20 cars began in FY91.

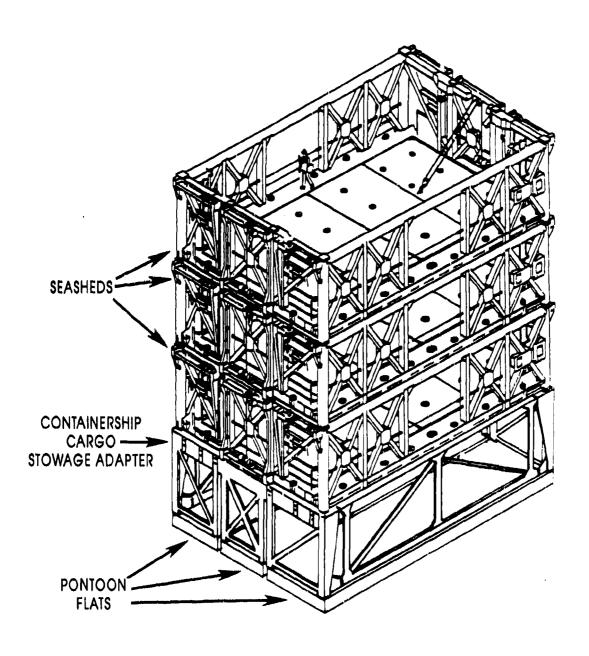
PROGRAM PLAN

There is no current plan to procure additional flat cars.

NSN

2220-01-058-6377

Part V LOTS, Harbor, and Container Offloading and Transfer Equipment



SEASHED System

POINT OF CONTACT

Mr. Marty Fink
Naval Sea Systems Command, PMS-3853
Arlington, VA 22242-5150
DSN 332-0920/Commercial (703) 602-0920

ITEM DESCRIPTION

The SEASHED System consists of a stack of up to three SEASHEDs on a Containership Cargo Stowage Adapter (CCSA).

SEASHEDs are open-topped large cargo containers that fit into the container cells of a containership to provide the capability to carry large, heavy or outsized cargo such as Army and Marine Corps tanks and helicopters. Each SEASHED occupies the space of three 40' containers in width and has the overall height of 1 1/2 containers, having dimensions of 25' wide, 40' long, and 12 1/2' high. The maximum clear internal height for cargo in a SEASHED 10'10". The maximum cargo capacity of each SEASHED is 220,000 pounds. Each SEASHED weighs 76,000 pounds. The floor of the SEASHED opens to allow cargo to be lowered through to the SEASHED or CCSA below. The clear opening of the floor is 30' x 18'. The CCSA has two elements—the adapter frame and three pontoon flats—which provide the same storage capability as a SEASHED.

STATUS

In 1989, contracts were awarded for the SEASHED and CCSA units. The last deliveries were received during 3QFY92 bringing the totals to 1,058 SEASHED and 359 CCSA units. The inventory is at three storage locations: MOT, Bayonne, NJ; NWS; Charleston, SC; and NCBC, Port Hueneme, CA.

PROGRAM PLAN

Program completed.

NSNs

SEASHED: 0910-LP-433-9400 CCSA: 0910-LP-248-8700

Floating Causeway (FC)



Floating Causeway (FC)

POINTS OF CONTACT

Mr. Ben Oh

US Army Belvoir RD&E Center, SATBE-FMS

Fort Belvoir, VA 22060-5606

DSN 654-3623/Commercial (703) 704-3623

Mr. Greg Walker

Naval Facilities Engineering Command, Code 1232

Alexandria, VA 22332

DSN 221-8535/Commercial (703) 325-8535

ITEM DESCRIPTION

The Floating Causeway (FC) consists of non-powered intermediate, offshore and beach end sections, and an Anchor Mooring System (AMS). It extends from the high water line out into the surf zone to a mean low water depth of 8'. The maximum working length of an FC is approximately 1,500'. The beach end sections include transition ramps from the roadway surface to the beach. The offshore end incorporates an adapter end for the discharge of cargo from displacement lighters onto the roadway. The offshore end uses the "Rhino" horn to mate with lighters, so equipped. The FC uses an AMS to retain an emplaced FC. The AMS uses large marine anchors placed perpendicular to the roadway, offshore, and dry beach anchors to secure the FC to the beach. Two Side Loadable Warping Tugs (SLWTs) are Associated Support Items of Equipment (ASIOE). The SLWTs are used to insert, retract, and tender the FC and to emplace and remove the larger AMS anchors. The FC is used as a dry bridge in the transfer of cargo (primarily rolling cargo) from displacement lighters to the shoreside logistics operation.

STATUS

The FC facility was granted Type Classification (TC) Limited Procurement Urgent (LPU) in February 1988 by HQ, DA direction. Currently, the Army has four 800' Modular ISO Compatible FC Systems.

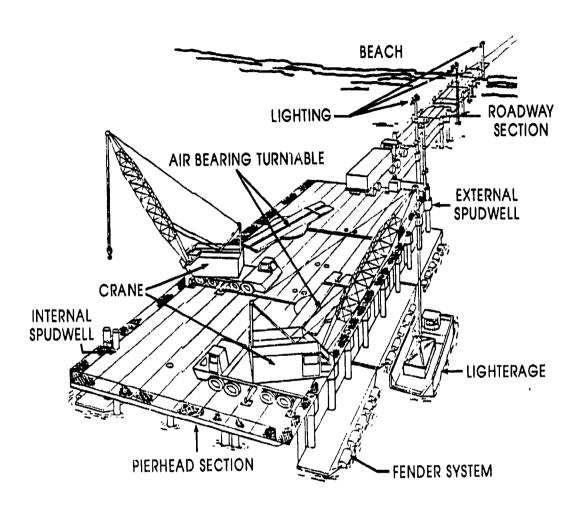
PROGRAM PLAN

FC System Type Classification-Standard is expected to be completed by 4QFY94.

NSN

1945-01-218-7268

Elevated Causeway, Modular (ELCAS (M))



Elevated Causeway, Modular (ELCAS (M))

POINTS OF CONTACT

Mr. Greg Walker
Naval Facilities Engineering Command, Code 1232
Alexandria, VA 22332
DSN 221-8535/Commercial (703) 325-8535

Mr. Ben Oh
US Army Belvoir RD&E Center, SATBE-FMS
Fort Belvoir, VA 22060-5606
DSN 654-3623/Commercial (703) 704-3623

ITEM DESCRIPTION

The Elevated Causeway, Modular (ELCAS (M)) is a modular pier facility, composed of container-compatible modules, providing an interface between displacement craft carrying containers and the beach. The ELCAS (M) will have a nominal length of up to 3,000', as required, to reach a 20' water depth at the pierhead and is 15' above the mean low water level. The pierhead will be 72' wide by 240' long. The two long sides of the pierhead will have a fendering system to accommodate unscathed, lighter interface. The ELCAS (M) is constructed by erecting initial section(s) and mounting a construction crane on top of them. Subsequent sections will be cantilevered from the previously erected sections and secured in place with piles. An ELCAS (M) roadway section measures 24' x 40', consisting of three ISO pontoons, each measuring 40' x 8' x 5.0'. Emplaced on the ELCAS (M) pierhead are two vehicle turntables for truck turnarounds which are supported by air bearings. Two container-handling cranes will be stationed on the ELCAS (M) pierhead to transfer cargo from lighters to container handling vehicles for subsequent transport to shore. The constructed ELCAS (M) will be equipped with a lighting system. Side-Loadable Warping Tugs and Modular Cauxeways will be used to install, maintain, and retrieve the ELCAS (M) system.

STATUS

An Army Operational and Organizational (O&O) Plan for the Elevated Causeway (ELCAS) was approved by the Commanding General, TRADOC, on 9 August 1985. A draft Operational Requirement (OR) for the ELCAS (M) has been prepared by the Naval Facilities Engineering Command and Army requirements for the ELCAS (M) have been incorporated into the Navy's OR. The Navy awarded a contract for the ELCAS (M) on 18 September 1992 to Jered Brown Brothers, Inc.

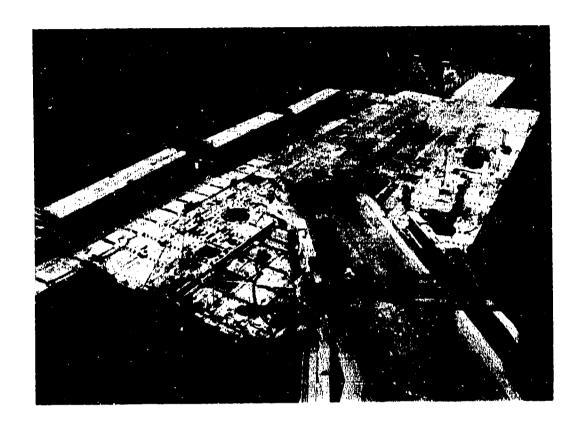
PROGRAM PLAN

The Navy will test the ELCAS (M) being fabricated and will receive delivery in September 1995. The Army Watercraft Master Plan identifies the requirement for two ELCAS (M); funding for the Army ELCAS (M) is currently in the Program Objective Memorandum (POM) for FY95-99.

NSNS

Not assigned

Roll-On/Roll-Off Discharge Facility (RO/RO DF)



Roll-On/Roll-Off Discharge Facility (RO/RO DF)

POINTS OF CONTACT

Mr. Ben Oh
US Army Belvoir RD&E Center, SATBE-FMS
Fort Belvoir, VA 22060-5606
DSN 654-3623/Commercial (703) 704-3623

Mr. Greg Walker Naval Facilities Engineering Command, Code 1232 Alexandria, VA 22332 DSN 221-8535/Commercial (703) 325-8535

Mr. Ted Vaughters
Carderock Division, Naval Surface Warfare Center, 102
Bethesda, MD 20084-5000
DSN 287-1175/Commercial (301) 227-1175

ITEM DESCRIPTION

The Roll-On/Roll-Off Discharge Facility (RO/RO DF) consists of a RO/RO platform, a "B" or Sea End section with provisions for "Rhino" hom, a Calm Water Ramp (CWR), a fendering system, a lighting system, and an emergency anchoring system. The RO/RO DF provides an interface between RO/RO ships and displacement type lighterage. It will support self-sustaining and non-self-sustaining RO/RO ships. The Platform is approximately 65' wide by 180' long. The "B" or Sea End provides an interface between the RO/RO platform and displacement craft. The CWR and fender system are used with non-self-sustaining ships. The lighting system is used during night operations and includes integral power generation and distribution. An emergency anchoring system is under development and is used when the ship being serviced is required to depart due to enemy actions or adverse weather conditions. The RO/RO DF is tendered by two Side Loadable Warping Tugs (SLWTs). The SLWT is an Associated Support Item of Equipment (ASIOE) for the RO/RO DF. The SLWT has a deck-mounted "A" frame and winch for hoisting/lifting and assembly of the RO/RO DF hardware and components. The SLWT also has a stern anchor.

STATUS

A RO/RO DF was granted Type Classification (TC) - Standard on 21 March 1985 at the Milestone I/III In Process Review (IPR). Five RO/RO DFs have been delivered to the Navy. A developmental effort is underway by the Navy to increase the operational capability of the RO/RO DF to include mooring of lighters for vehicle transfer. The Navy partially tested a conceptual causeway ferry mooring system during the 1993 J-LOTS III Test.

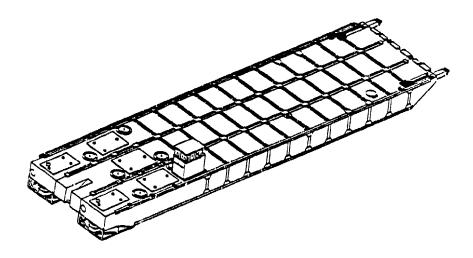
PROGRAM PLAN

The Army plans to procure modular RO/RO DF and to complete TC Standard by 4Q94. Follow on tests, by the Navy, of the causeway ferry mooring system are planned for FY94.

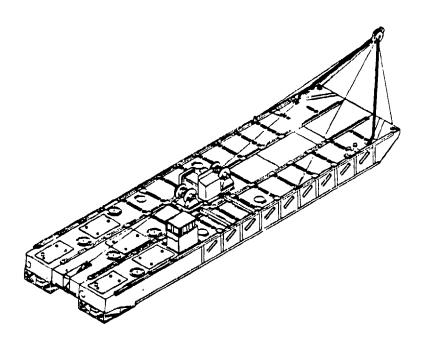
NSN

1945-01-219-2109

Causeway Section, Powered (CSP)



Causeway Section, Powered



Side-Loadable Warping Tug

Causeway Section, Powered (CSP)

POINTS OF CONTACT

Mr. Greg Walker

Naval Facilities Engineering Command, Code 1232

Alexandria, VA 22332

DSN 221-8535/Commercial (703) 325-8535

Mr. Ben Oh

US Army Belvoir RD&E Center, SATBE-FMS

Fort Belvoir, VA 22060-5606

DSN 654-3623/Commercial (703) 704-3623

ITEM DESCRIPTION

The Causeway Section, Powered (CSP) Navy Lighterage (NL) version will be procured by the Army through the Navy. The NL version of the CSP and the Side Loadable Warping Tug (SLWT) are shown. The NL versions are constructed with 5' x 5' x 7' NL pontoons and three Waterjet Propulsion Assemblies. Propulsion modules consist of a drive engine and a waterjet pump system. The SLWT can be side carried on a Landing Ship Tank (LST). The CSP can carry 40 tons of cargo and is used to push Causeway Ferries. A Causeway Ferry consists of a CSP and Causeway Sections, Non Powered (CSNPs). Each CSNP carries 100 tons of cargo.

STATUS

A contract to procure 18 additional SLWT/CSP NL version units, for the Navy, is planned for award in 4QFY93. 40 CNSP's and 18 CSP/SLWT's will be delivered to the Navy as a result of a 4QFY87 contract.

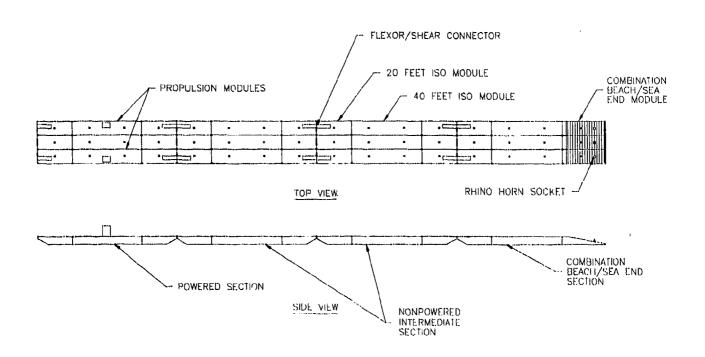
PROGRAM PLAN

Monitor contract and field the delivered units. Delivery of the SLWT/CSP NL version and the CSNP units will continue through 4QFY94.

NSNs

CSP: 1945-01-213-7235 SLWT: 1945-01-218-4669

Modular Causeway Ferry (MCF)



Modular Causeway Ferry (MCF)

POINT OF CONTACT

Mr. Ben Oh US Army Belvoir RD&E Center, SATBE-FMS Fort Belvoir, VA 22060-5606 DSN 654-3623/Commercial (703) 704-3623

ITEM DESCRIPTION

The Modular Causeway Ferry (MCF) consists of a powered section, two non-powered intermediate sections, and a non-powered combination beach/sea end section joined end-to-end. It has a loaded capacity of 100 short-tons per non-powered section and approximately 50 short-tons for the powered section. It carries a total cargo capacity of 350 short-tons with approximately 12" of freeboard. The powered section is composed of powered modules with internal propulsion and control components connected to non-powered modules. The MCF will operate in the J-LOTS environment between RO/RO and lift-on/lift-off ships and shoreside logistics operations. Upon arrival in the operational area, the MCF components will be offloaded and assembled for use. Each operational system includes pilot-to-operator, operator-to-commercial ship, and operator-to-command and control communication equipment.

STATUS

A Limited Procurement Urgent (LPU) message was released in July 1992 for immediate procurement of the MCF.

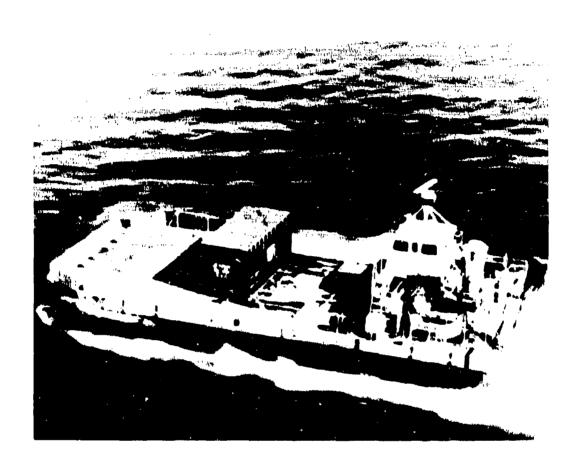
PROGRAM PLAN

The Army will pursue a Non-Developmental Item (NDI) procurement approach for the MCF. The MCF contract is anticipated to be awarded in 2Q94 with a maximum quantity of 16 MCF's.

NSN

Not yet assigned.

Lighter, Air Cushion Vehicle, 30-Ton (LACV-30)



LENGTH	76' 3 '	DESIGN GROSS WEIGHT 57,344 pounds
WIDTH	36' 8'	SPEED AT MAX CONTINUOUS POWER 40 mph at all-up weight
DECK LENGTH	51' 6'	ENDURANCE approx 5 hours of LOTS with 25-ton payload
HEIGHT (HOVERING)	28' 11"	DECK WIDTH 36' 6'
CARGO DECK HEIGHT	3' 11.5 "	

Lighter, Air Cushion Vehicle, 30-Ton (LACV-30)

POINT OF CONTACT

Mr. John Walter
US Army Belvoir RD&E Center, SATBE-FMD
Fort Belvoir, VA 22060-5606
DSN 654-2311/Commercial (703) 704-2311

ITEM DESCRIPTION

The LACV-30 is a military adaptation of the Bell Aerospace Company air cushion vehicle Voyageur and is used primarily in Logistics-Over-The-Shore (LOTS) operations. It is used to provide the logistical system with a rapid lift capability of moving cargo and equipment over water, marsh areas, beaches, ice, snow, and land. The LACV-30 provides a method of augmenting congested port facilities or compensating for lost or reduced port capabilities. The LACV-30 is also intended to support secondary missions such as coastal, harbor, inland waterway operations, support of amphibious operations, ship-to-shore operations, transport operations, and search and rescue operations. The LACV-30 can negotiate Sea State 2 and 8' plunging surf.

STATUS

Two prototype craft were built and successfully passed operational and developmental tests. The LACV-30 was subsequently Type Classified. Twenty-four production craft have been built under two separate contracts with Bell Aerospace. The first 12 craft were assigned to the 331st Transportation Company and the second 12 craft to the 8th Transportation Company. All of the LACV-30s are stationed at Fort Story, VA. The last craft was delivered in 1986. In June 1993, the LACV-30 Requirements Document was rerminated.

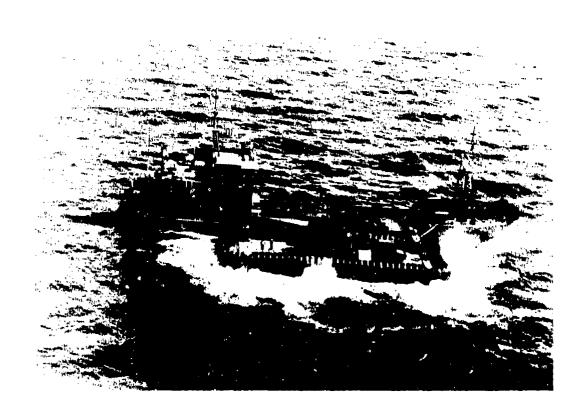
PROGRAM PLAN

The LACV-30 units will suspend support based on Unit C-5 Status on 30 September 1993. The LACV-30 will be Type Classified Obsolete with an effective date of 30 September 1994.

NSN

2305-01-061-6230

Pontoon Air Cushion Kit (PACK)



LENGTH	80.0' (hard structure) 97.0' (inflated)	BEAM	32' (hard structure) 49' (inflated)
HEIGHT	4.5' (hard structure)	HEIGHT	11' (inflated)
CUSHION HEIGHT LIGHTSHIP	3.0'	CUSHION AREA CUSHION PERIPHERAL	3,145 sq ft
DISPLACEMENT FULL LOAD	198,500 pounds	LENGTH	241'
DISPLACEMENT	410,500 pounds		
KIT WEIGHT	32,500 pounds (without pontoons	s)	

Pontoon Air Cushion Kit (PACK)

POINT OF CONTACT

Mr. Scott Miller
US Army Belvoir RD&E Center, SATBE-FMD
Fort Belvoir, VA 22060-5606
DSN 654-2305/Commercial (703) 704-2305

ITEM DESCRIPTION

The PACK consists of a lightweight peripheral skirt system with autonomous air supply units that can be attached in the field to a Modular Causeway barge (80' x 32') converting it into an air cushion supported platform capable of carrying 140 short-tons of cargo. There are two skid mounted diesel engine (GM 8V-9LTA) centrifugal fan units which supply pressurized air to the skirt system. The PACK has "pusher knees" that can be attached to one end of the causeway section to facilitate warping operations with US Army lighters. The PACK (excluding Modular Causeway) is transportable in a 40' ISO container.

The PACK was developed by the Army Belvoir RD&E Center to provide enhanced mobility and an amphibious capability to inventory Modular Causeway sections for LOTS operations. The current Modular Causeway sections are incapable of traversing shallow beach gradients or LOTS sites that have restrictive hydrographic features (i.e., offshore sandbars, coral reefs). The Army and Navy presently utilize modular pontoons, which are bolted and welded together, to construct field-assembled causeways, causeway ferries, warping tugs, and Roll-On/Roll-Off (RO/RO) discharge platforms for use in a LOTS operation. The Army has 40' x 8' x 4.5' modular pontoons which are compatible with container handling equipment and are capable of being shipped by containership. Retractable pin connectors enable fast and rigid connection of the modules.

The Army also currently does not have the amphibious capability to carry heavy, outsized cargo in a LOTS operation. The current heavy lift amphibian—the Lighter, Resupply Cargo - 60 ton (LARC-LX)—is unable to carry the Army's heaviest piece of LOTS equipment, the 140-ton capacity crane (92 short-ton tactical disassembly weight).

STATUS

A full-scale PACK technology demonstrator was fabricated and tested in a 3-week Concept Evaluation Program (CEP) user test at Fort Eustis, VA, 25 June-13 July 1990 and at Fort Story, VA, 23-26 September 1990. The PACK was tested over water using the Landing Craft, Mechanized (LCM-8) and the Lighter, Air Cushion Vehicle-30 Ton (LACV-30) as prime movers. The PACK was tested over land using the D-7 bulldozer and the 50K Rough Terrain Container Handler (RTCH) as prime movers. The total payload carried by the PACK was 130 short-tons. The PACK was also demonstrated in the J-LOTS III exercise, September 1991, at Fort Story, VA. 'The PACK was successfully deployed on a T-ACS crane ship. The PACK also carried various heavy outsized pieces of equipment including two M1A1 tanks and the 140-ton capacity container crane.

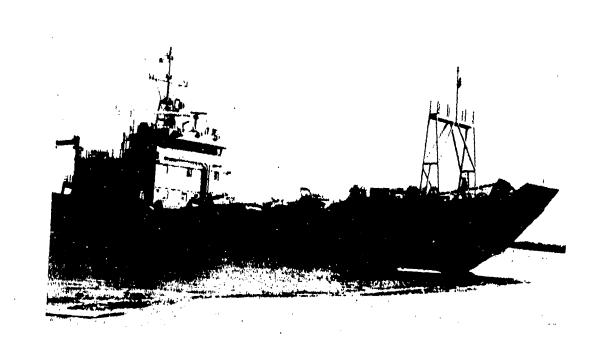
PROGRAM PLAN

Possible testing of the PACK with a modular propulsion system may be conducted in the future. The design of the non-powered PACK is being preserved in a Technical Data Package so that the PACK may be readily fabricated in the future if it is required.

NSN

Not assigned

Landing Craft, Utility (LCU) 2000



Landing Craft, Utility (LCU) 2000

POINT OF CONTACT

Mr. Joseph Wersching
US Army Belvoir RD&E Center, SATBE-FMS
Fort Belvoir, VA 22060-5606
DSN 654-2302/Commercial (703) 704-2302

ITEM DESCRIPTION

The LCU 2000 is the latest in the evolution of the landing craft designs, succeeding the 1646 Class LCU and replacing the 1466 Class in the Active Army and Reserve inventories. The mission of the LCU 2000 is to provide transportation of rolling and tracked vehicles, containers, and outsized and general cargo in support of LOTS operations as well as Coastal, Harbor, and Inland (CHI) waterway missions. The LCU 2000 has an overall length of 184', a beam of 42', and a full load design draft of 8'. It is capable of carrying up to 30 20' or 12 40' ISO freight containers secured on its 3,000 plus square foot cargo deck, and can carry a full load of 350 short-tons. It is configured to deliver 175 short-tons through its 16' wide bow ramp to shallow 1/30 gradient beaches without exceeding a 4' bow draft. The LCU's 2 Cummins V16 turbo-charged diesels with 2,500 installed HP provides a full load speed of 10 knots, and a light delivery speed of 12 knots. The 300 HP Cummins powered Bow Thruster provides added maneuverability during docking or undocking operations. It is classed by the American Bureau of Shipping (ABS) for full ocean service and one-man engine room operations, and is built to US Coast Guard standards. LCUs are equipped with the latest navigation, communication, and electronic equipment including an automatic pilot and steering system. The LCU 2000 is capable of sustaining its crew of two warrant officers and 11 enlisted personnel for periods of up to 18 days and over 6,000 nautical miles, without refueling.

STATUS

The procurement of the LCU 2000 utilized the Non-Developmental Item (NDI) acquisition strategy, and was managed by the Product Office for Amphibians and Watercraft (PO-AWC) with specifications prepared by the Belvoir RD&E Center. The 35 LCU 2000 vessels were constructed by Halter Marine, Inc., a division of Trinity Marine Industries, at the Moss Point Marine Shipyard, Escatawpa, MS, as part of a 5-year multi-year firm fixed price contract awarded in June 1986. The lead vessel, LCU 2001, US Army Runnymede, was launched on 14 August 1987 and sea trials were conducted 12-14 July 1988 and the vessel delivered 16 February 1990. The LCU's have been delivered to the following Army units: 97th and 329th Transportation Companies; Fort Eustis, VA (16); the 481st National Guard Unit in Rio Vista, CA (8); the 824th National Guard Unit in Morehead City, NC (5); Panama (2); Kwajalein (2); and Hythe, UK (2 Prepositioned). The last LCU 2000 was delivered to Fort Eustis, VA in September 1992. The proposed ramp modification proved unacceptable. A proposed Materiel Change list has been prepared and distributed for comment. The Materiel Changes will address correction of the ramp issue and other technical deficiencies.

PROGRAM PLAN

The last deliverable under the contract is the "as constructed" drawings depicting any differences between vessels.

NSN

1905-01-154-1191

Logistics Support Vessel (LSV)



Logistics Support Vessel (LSV)

POINT OF CONTACT

Mr. Scott Story
US Army Belvoir RD&E Center, SATBE-FMS
Fort Belvoir, VA 22060-5606
DSN 654-2303/Commercial (703) 704-2303

ITEM DESCRIPTION

The LSV has the capability of intra-theater linehaul of cargo to support the unit deployment/relocation, tactical and sustained resupply to remote, undeveloped areas along coastlines and on inland waterways. Additionally, the LSV is capable of self-delivery to a theater of operations. Mission requirements include the capability to assist in discharging and backloading ships in a roll-on/roll-off or LOTS operations with its drive-through capability and of transporting heavy, outsized cargo. The vessel has a self-delivery range of 6,500 nautical miles at service speed of 11.5 knots and is capable of sustaining a crew of 29 for a minimum of 30 days. Utilizing 10,500 square feet of deck cargo space, the LSV can transport 2,000 short-tons of cargo consisting of rolling stock, general cargo or ISO containers. Principal characteristics of the LSV are: length (overall), 273'; beam (molded), 60'; beaching draft, 4' at the bow, with 900 tons of cargo distributed uniformly over the deck; twin screw diesel propulsion; 3,900 shaft HP; bow thruster; bow and stern ramps; and deck sockets to secure all types of cargo transported.

STATUS

The LSV was Type Classified Standard, Logistics Control Code (LCC) A in September 1983. After a competitive solicitation, contract for four LSVs was awarded to Moss Point Marine Shipyard, Escatawpa, MS, on 19 September 1986. The LSV was initially fielded in November 1987 and was commissioned as a US Army vessel. The original contract was later modified on 19 September 1989 to include construction of a fifth LSV and again on 19 May 1993 for construction of a sixth LSV. The LSVs' delivery dates are shown below:

Hull No.	Name	Delivery Date	Gaining Command
LSV-1	GEN Frank S. Besson, Jr.	November 1987	FORSCOM
LSV-2	CW3 Harold C. Clinger	February 1988	WESTCOM
LSV-3	GEN Brehon B. Sommervell	April 1988	NGB
LSV-4	LTG William B. Bunker	May 1988	FORSCOM
LSV-5	MG Charles P. Gross	January 1991	WESTCOM
LSV-6	Not yet assigned	June 1994	FORSCOM

PROGRAM PLAN

Continue to support the fielded vessels.

A Materiel Change program is underway to upgrade and modernize systems and components on the LSVs.

NSN

1915-01-153-8801

Fast Logistic Ship (T-AKR) Program



Fast Logistic Ship (T-AKR) Program

POINT OF CONTACT

Mr. Marty Fink Naval Sea Systems Command, PMS-3853 Arlington, VA 22242-5150 DSN 332-0920/Commercial (703) 602-0920

ITEM DESCRIPTION

The Fast Logistic Ship (T-AKR) Program involved the procurement of eight SL-7 class high-speed (33 knots) containerships and their subsequent conversion into a combination RO/RO-Container configuration specifically designed for the rapid transport of military vehicles and equipment, including tanks and helicopters. The conversion design includes installation of decks midship to permit roll-on/roll-off of vehicles, addition of a flight deck for helicopter operations, and retention of the existing container cells aft. The T-AKR provides the capability to transport 78 special-purpose heavy-duty flatracks in the aft part of the ship: 53 (35' long x 8' wide x 13.5' high), 22 (35' long x 8' wide x 10.5' high), 3 (35' long x 8' wide x 8.5' high), 46 containers (20' long x 8' wide x 8' high)*, and eight SEASHEDs (35' long x 25' wide x 12.5' high). The 35' special-purpose flatracks were designed specifically for use on-board the T-AKR and are capable of carrying a maximum cargo weight of 134,400 pounds. These flatracks have been designed with hinged edge flaps installed along one side to provide the ability to span the gaps between flatracks in container cells resulting basically in a series of 'tween decks. The ships have ramps for the discharge of rolling stock, and cranes for lift-on/lift-off operations.

STATUS

In reduced operating status under operational control of the Military Sealift Command. The eight ships are: USNS ALGOL (T-AKR 287); USNS CAPELLA (T-AKR 293); USNS ALTAIR (T-AKR 294); USNS BELLATRIX (T-AKR 288); USNS REGULUS (T-AKR 292); USNS DENEBOLA (T-AKR 289); USNS ALTAIR (T-AKR 291); and USNS POLLUX (T-AKR 290).

PROGRAM PLAN

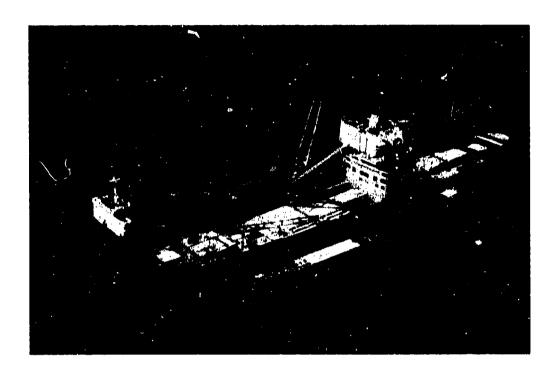
Program completed.

NSN

Not assigned

^{* 44} containers (20' long x 8' wide x 8' high) on USNS ALGOL (T-AKR 287), USNS BELLATRIX (T-AKR 288), and USNS REGULUS (T-AKR 292).

Auxiliary Crane Ship (T-ACS)



Auxiliary Crane Ship (T-ACS)

POINT OF CONTACT

Mr. Mirza Baig Naval Sea Systems Command, PMS-3852 Arlington, VA 22242-5150 DSN 332-7881/Commercial (703) 602-7881

ITEM DESCRIPTION

The T-ACS is a converted containership from the MARAD Reserve Force modified by the installation of twin-boom marine cranes. Auxiliary features supporting crane operation include upgraded or supplementary living quarters, upgraded messing facilities, upgraded communications suites, additional generator capacity, semi-permanent or permanent ballast, modification of some container cells to permit installation of SEASHEDs, lighterage stowage capability, and upgraded mooring and fendering capabilities.

The primary mission of the ship is to offload non-self-sustaining cargo (container) ships moored alongside with offload operations conducted at anchor, in the stream, or in an underdeveloped or damaged port. The ship also has the capability to discharge its own cargo.

The cranes on the T-ACS are evolutionary variations of the level luffing type crane already in widespread merchant service. All T-ACS classes have twin boom rotating pedestal cranes. The T-ACS 1 class has three twin cranes capable of offloading 30 long-tons with a single boom, 60 long-tons with twin booms, and 105 long-tons in tandem (four booms). The T-ACS 4 class has two twin cranes capable of offloading 30 long-tons with a single boom, 60 long-tons with twin booms, and 120 long-tons in tandem. T-ACS 7 through T-ACS 10 will have the same crane design and capability as the T-ACS 4, except T-ACS 7 and T-ACS 8 have three twin cranes.

STATUS

T-ACS 1, SS KEYSTONE STATE, began conversion in March 1983 by Bay Shipbuilding Corporation, and was delivered in May 1984. The ship successfully completed J-LOTS II exercises in October 1984. The second ship, T-ACS 2, SS GEM STATE, began conversion in September 1984 at Continental Maritime of San Francisco, Inc., and was delivered in October 1985. Dillingham Ship Repair began conversion of T-ACS 3, SS GRAND CANYON STATE, in September 1985 and delivered the ship in October 1986. The conversion contract for T-ACS 4, SS GOPHER STATE, T-ACS 5, SS FLICKERTAIL STATE, and T-ACS 6, SS CORNHUSKER STATE, was awarded to Norfolk Shipbuilding and Drydock Corporation in August 1986. Redeliveries of T-ACS 4, 5, and 6 were October 1987, February 1988, and April 1988, respectively. The conversion contract for T-ACS 7, SS DIAMOND STATE, and T-ACS 8, SS EQUALITY STATE, was awarded to Tampa Shipyards, Inc., in September 1987. T-ACS 7 and T-ACS 8 were redelivered in February 1989 and May 1989, respectively. The conversion contract for T-ACS 9, SS GREEN MOUNTAIN STATE, and T-ACS 10, SS BEAVER STATE, was awarded to Norfolk Shipbuilding and Drydock Corporation in January 1989. T-ACS 9 was redelivered in September 1990. The T-ACS 10 contract was terminated in January 1990 to allow sufficient funds to complete the conversion of T-ACS 9. T-ACS 10 underwent lay-up for a 1-year period so that the Navy could seek funding to complete the vessel. T-ACS 10 funding has been identified and MARAD has initiated efforts to complete the ship at Charlston Naval Shipyard. Conversion of T-ACS is ongoing.

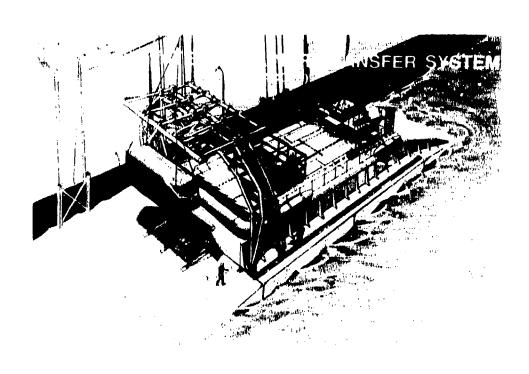
PROGRAM PLAN

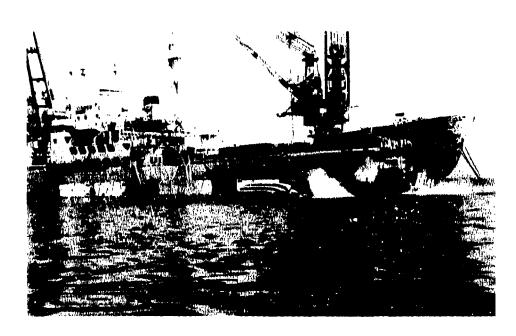
The T-ACS program calls for conversion of a total of 12 ships from the MARAD Reserve Force. As directed by Congress, the Navy did not budget for T-ACS 11 and 12 in the FY91 or future budgets. MARAD is to plan for the T-ACS 11 and 12 conversions as part of the Department of Transportation (DOT) budget request. The OPNAV letter of 4 February 1992 to MARAD stated that there is no requirement for the additional T-ACS 11 and 12 ships based on a recently completed mobility requirements study and guidence received from DOD and VCJCS.

NSN

Not assigned

High Sea State Container Transfer System (HISEACOTS)





High Sea State Container Transfer System (HISEACOTS)

POINT OF CONTACT

Ms. Kathleen Krawchuk
US Army Belvoir RD&E Center, SATBE-FMS
Fort Belvoir, VA 22060-5606
DSN 654-2319/Commercial (703) 704-2319

ITEM DESCRIPTION

The HISEACO IS is a system that has been developed to stabilize the offloading/lighter interface, in high Sea States (SS 3/4), between offloading cargo vessels and receiving lighters which deliver the cargo to shore. The system consists of a floating platform (160' x 72') made up of modular ISO pontoons with fore and aft ramps and side batterboards to guide air cushion vehicles (US Navy LCAC and US Army LACV-30) onto the platform. This platform is fitted with a specially designed gantry crane for offloading ISO containers and cargo weighting up to 50,000 pounds. The gantry crane has a pendulation attenuator bar that mitigates all pendulation motions through friction forces generated at the bar by the container slings. A positive lock/spar device further reduces any heave motions present and allows the offload of eccentrically loaded containers.

STATUS

The HISEACOTS is currently in the concept exploration phase. A Small Business Innovation Research (SBIR) Program contract was awarded (Phase I) in 1986 for concept design. A Phase II SBIR contract was awarded in 1988 for a detailed HISEACOTS system design and additional fabrication and testing of the special gantry crane. Land based testing of the gantry crane was successfully completed April 1990. A joint Army/Navy technology demonstration of an air cushion "fly-on/fly-off" platform was completed October 1990. A Phase III SBIR contract was awarded in 1990 for full-scale demonstrations. A pierside demonstration was successfully completed in April 1991. A fully functional HISEACOTS successfully offloaded ISO containers and vehicle cargo during Ocean Venture 92 exercises.

PROGRAM PLAN

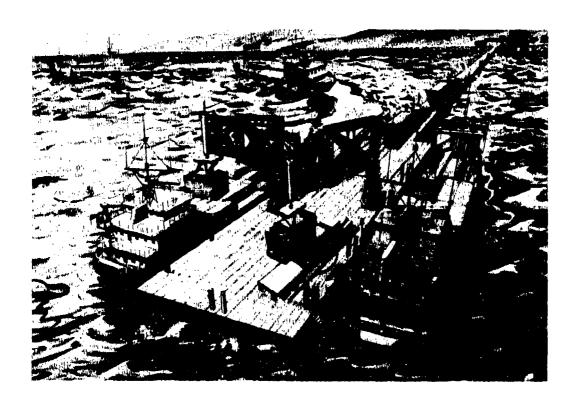
A conceptual design study is planned to investigate uitability of the HISEACOTS configuration for use with displacement lighters.

A joint Army/Navy demonstration is planned for FY94 utilizing the Army ISO modular pontoon HISEACOTS platform and the Navy LCAC air cushion lighters to offload heavy and oversized vehicle cargo.

NSN

Not assigned

Automated All-weather Cargo Transfer System (AACTS)



Automated All-weather Cargo Transfer System (AACTS)

POINT OF CONTACT

Mr. Victor Batson US Army Belvoir RD&E Center, SATBE-FMR Fort Belvoir, VA 22060-5606 DSN 654-2315/Commercial (703) 704-2315

ITEM DESCRIPTION

The AACTS is an automated system which will be used to transfer ISO containers between containerships and lighterage in stream or between lighterage and transportation assets at shoreside in support of LOTS operations. AACTS is capable of compensating for the relative motion differences between a containership and lighterage and between lighterage and shore-based causeways. AACTS may replace the conventional cable type of crane found shoreside such as the 140-Ton Crane or the ship-mounted container cranes.

The system has the ability to identify, track, and engage an ISO container using a built-in vision system. This system allows the container to be engaged even under conditions of severe relative motion differences between the container and the AACTS. These capabilities will allow AACTS to increase the number of containers transferred from ship-to-shore during Sea States (SS) 1 and 2 and provide the new capability to efficiently transfer containers in SS 3 and 4. In addition, personnel can be eliminated from hazardous tagline operations, thereby increasing safety.

STATUS

AACTS was established under the Small Business Innovative Research (SBIR) Program. August Design, Inc. submitted the SBIR and has been performing the effort under the SBIR Program. Phase I consisted of a feasibility study and was completed during FY87. Phase II was initiated during FY88 and completed at the end of FY90. Phase II resulted in a working 1/10th scale model which proved the concept of picking containers autonomously from a simulated LACV-30 in SS 3 and 4 conditions. A Phase III contract was awarded on 28 February 1992 to further develop the technology explored in Phase II by completely simulating the AACTS at a reduced scale.

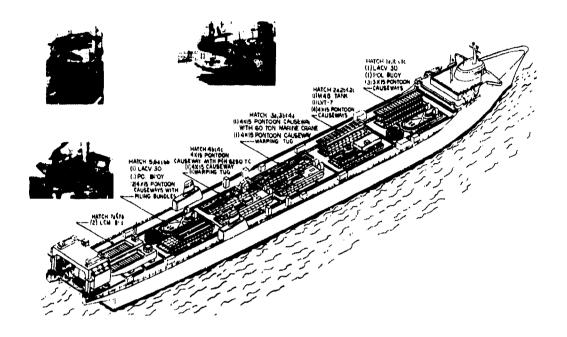
PROGRAM PLAN

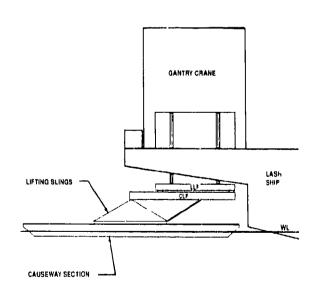
Conduct testing of the Phase III hardware in a wave tank during 1QFY94.

NSN

Not assigned

Cantilevered Lift Frame (CLF)





TYPICAL DECK STOWAGE FOR OUTSIDE CARGO COMPONENTS FOR C9 LASH VESSEL

LASH CAUSEWAY LIFTING OPERATIONS

Cantilevered Lift Frame (CLF)

POINTS OF CONTACT

Mr. Greg Walker

Alexandria, VA 22332

DSN 221-8535/Commercial (703) 325-8535

Mr. Ted Vaughters

Naval Facilities Engineering Command, Code 1232 Carderock Division, Naval Surface Warfare Center, 102

Bethesda, MD 20084-5000

DSN 287-1175/Commercial (301) 227-1175

ITEM DESCRIPTION

The CLF has the capability to deploy commercial LASH vessels with heavy, outsized equipment and to offload offshore during LOTS operations. This special lifting device attaches to the LASH ship's gantry crane (designed to lift 30' x 60' barges up to 500 short-tons) and enables the lift of nonbarges, eccentric loads up to 150 tons approximately 60' wide x 90' long. The frame was designed to be mated to the four lifting sockets of either the Morgan or Alliance lighter crane lifting frames. The design concept, called the Cantilevered Lift Frame, has been accepted as a National Defense feature by MARAD. Certification by the American Bureau of Shipping is based on the capacity of the eccentric loaded crane.

STATUS

Development is ongoing to provide quick-release devices for the rigging gear to assist SS 3 offload of causeways from a LASH ship. Existing design is under procurement for a total of 13 CLF units. Prototype quick-release devices were successfully tested during J-LOTS III in conjunction with testing of an advanced spreader bar design.

PROGRAM PLAN

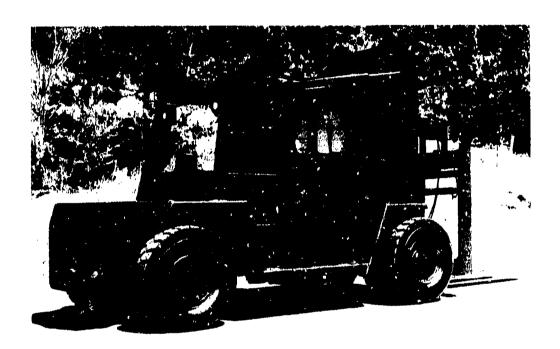
Complete procurement of 13 CLF units. Change rigging design and continue procurement of device with lift beam.

NSN

3950-LL-LCA-0115

Part VI Aerial Port/Terminal Equipment

Avionics Intermediate Shop (AIS) Shelter Movement



Note: Due to the unavailability of a 25,000 pound capacity forklift, shown above is the 22,100 pound capacity forklift.

Avionics Intermediate Shop (AIS) Shelter Movement

POINT OF CONTACT

Mr. Paul Larkin HQ Air Combat Command/LGTV Langley AFB, VA 23665-5541 DSN 574-3417/Commercial (804) 764-3417

ITEM DESCRIPTION

This is a new requirement within Central Command's area of responsibility. The forklift will have a lifting capacity of 25,000 pounds at a 48" load center and will be utilized to handle tactical ISO shelters and containers. It will be a diesel engine driven, rough terrain, four wheel drive, pneumatic tired forklift with either four wheel (rigid frame) or articulated frame steering. The 25,000 pound forklift has a side shift carriage and is air transportable on C-130, C-141, and C-5 aircraft.

STATUS

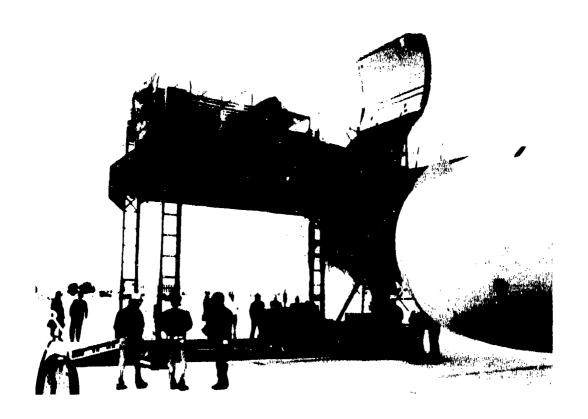
The 25,000 pound capacity forklift is a replacement for the 22,100 pound capacity forklift which was air transportable only by the C-5 Galaxy. The Air Force procured 58 of the 22,100 pound capacity forklifts from Clark Material System Technology Company, with 19 fielded within the former Tactical Air Command. Procurement specifications were prepared for the 25,000 pound capacity forklift and a solicitation was released in March 1992.

PROGRAM PLAN

A contract was awarded on 23 March 1993 for 26 forklifts. First Article Testing of the 25,000 pound capacity forklift is scheduled to commence in September 1993. Deliveries are scheduled for May 1994.

NSN

3930-01-294-9912



Elevator Loader

POINT OF CONTACT

COL Larry R. Keams
Warner Robins Air Logistics Center, WRALC/LV
Robins AFB, GA 31098-5345
DSN 468-2062/Commercial (912) 926-2062

ITEM DESCRIPTION

The three models of Elevator Loaders in the Air Force inventory are the Cochran 316(A) and 316(E), and the Wilson CL3. The operating capabilities of the Cochran 316(A) and 316(E) loaders are 25,000 pounds and 30,000 pounds, respectively. The 316(A) model can accommodate two 463L pallets while the 316(E) model can accommodate three 463L pallets at a time. These loaders are undergoing major overhaul and re-engineering improvements. The Wilson CL3 loader has the capability of lifting 40,000 pounds, and can accommodate three 463L pallets. All three elevator loaders are compatible with widebody aircraft upperdeck nose doors and side doors with a maximum transfer height of 18.5'. The loaders are transportable in C-130 aircraft. The loaders are used at major aerial ports for efficient mechanized loading/offloading of cargo between wide-body aircraft and other materials handling equipment.

STATUS

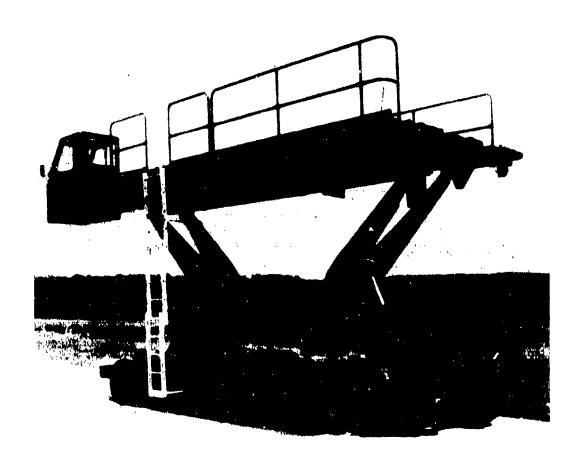
The Air Force has 97 Elevator Loaders on hand of which 42 of the Cochran's are undergoing overhaul. An overhaul contract for the remaining 42 Elevator Loaders was awarded in September 1991 to DeVal Corporation.

PROGRAM PLAN

Monitor the overhaul contract. The Elevator Loaders will eventually be replaced by the 60,000-pound Capacity Loader which is scheduled for production delivery in 4QFY95.

NSN

3930-01-069-1026 CT



25,000-Pound 463L Aircraft Loader

POINT OF CONTACT

COL Larry R. Keams
Warner Robins Air Logistics Center, WRALC/LV
Robins AFB, GA 31098-5345
DSN 468-2062/Commercial (912) 926-2062

ITEM DESCRIPTION

This diesel-powered loader has the capacity to transport 25,000-pound palletized aircraft loads to and from cargo aircraft. It has a platform length of 24', a width of 10', and can accommodate three 463L pallets. The 25,000-pound loader is air transportable by C-130 aircraft and available at major aerial ports. The 25,000-pound loader can accommodate ISO containers with gross weight—including 463L adapter systems—of 25,000 pounds.

STATUS

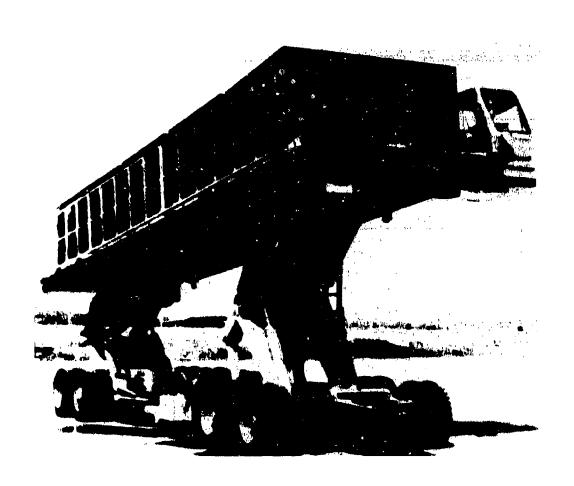
The Air Force currently has 475 of the Aircraft Loaders on hand. A contract was awarded 1 July 1987 for 191 additional 25,000-pound capacity Aircraft Loaders and later exercised an option for 49 more, thus bringing the contract total to 240. Deliveries began in May 1992 with 9 received by 1 September 1992. A total of 87 loaders were delivered by July 1993.

PROGRAM PLAN

The inventory objective is 861 units. Continue to receive and field the Aircraft Loaders from the contract.

NSN

3930-00-955-3293 CT



40,000-Pound 463L Aircraft Loader

POINT OF CONTACT

COL Larry R. Keams
Warner Robins Air Logistics Center, WRALC/LV
Robins AFB, GA 31098-5345
DSN 468-2062/Commercial (912) 926-2062

ITEM DESCRIPTION

This Aircraft Loader has the capacity to transport 40,000-pound 463L palletized loads to and from cargo aircraft. It has a platform length of 411/2', a width of 10', and a lifting range of 31/3' to 13' at 10 feet per minute. The unit will accommodate five 463L pallets. The loaders are air transportable and are available at all major aerial ports. The 40,000-pound loader can also accommodate an ISO container loaded on married 463L pallets or other adapter systems.

STATUS

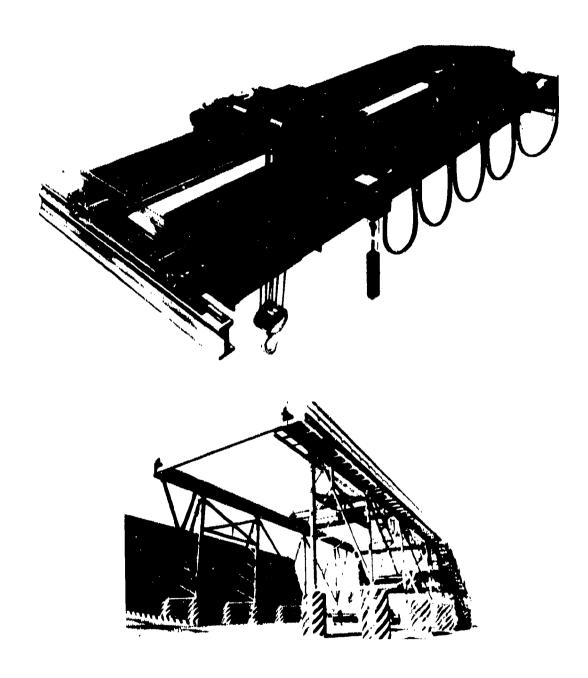
The Air Force has 286 40,000-pound loaders on hand.

PROGRAM PLAN

The 40,000-pound loader will be replaced by the 60,000-pound Capacity Loader which is scheduled for production delivery in 4QFY95. The 60,000-pound Capacity Loader will be air transportable, a member of the 463L Material Handling System, and capable of loading all aircraft including the C-17. A depot overhaul contract for the 40,000-pound capacity loader is currently in place to assure operational readiness.

NSN

3930-00-800-3929 CT 35-Ton Bridge Crane



35-Ton Bridge Crane

POINT OF CONTACT

LTC George Newlands HQ Air Mobility Command, XORPE Scott AFB, IL 62225-5001 DSN 576-4951/Commercial (618) 256-4951

ITEM DESCRIPTION

The 35-Ton Bridge Crane provides major aerial ports the capability to build up pallets for air drop missions and to transfer fully loaded ISO shelters, air/land and surface containers from trucks/trailers to adapter systems and aircraft loaders. The Bridge Crane is not mobile and provides the capability to support limited container movements.

STATUS

Bridge Cranes are installed at the following aerial ports: Dover, Travis, Mildenhall, Ramstein, Rhein-Main, and Kadena.

PROGRAM PLAN

Install the Bridge Cranes as new facilities are constructed.

NSN

Not applicable

Part VII Deleted Programs

ver time, many programs have been added and deleted from the Container System Hardware Status Report. Listed below are the programs which have been deleted. These programs are listed under the edition of the report from which they were deleted. The programs were deleted from the report for many reasons, including: lack of funding; lack of user support; completion of the program; individual service program combined into a joint service program; or, in rare cases, the POC could not be contacted to determine the status of the program.

July 1976 Status Report

Aerocrane, Ultra Heavy, Vertical Lift

Container Handling in Terminal Operations (CHITO) Equipment

Klemp Klamp Detachable Container Clamp

Lightweight Top Lift Attachments

Logistics-Over-The-Shore (LOTS)

Ship-to-Shore Balloon Transport System (BTS)

10,000-Pound Capacity Forklift Rough Terrain

Type "B" Restraint System for Commercial Containers (Value Engineering)

Type "C" Restraint System for Commercial Containers (Foster Miller)

Type "C" Restraint System for Commercial Containers (Kappa Sys Inc)

US Coast Guard Actions

January 1977 Status Report

Automatic Air Valving Surface Effects Device (ASVSED)

Container Condensation Test

Tug, Large, Inland and Coastal

Tug, Small, Harbor and Inland Waterway

January 1978 Status Report

50,000-Pound Capacity Container Handler, Side Loader (Cochran Western)

Railcar, Modified Flatbed

300-Ton Self-Discharging, Beaching Lighter (BDL)

Type "A" Restraint System for Commercial Containers (Brooks & Perkins)

Type "B" Restraint System for Commercial Containers (Brooks & Perkins)

July 1978 Status Report

4,000-Pound Capacity Forklift Truck, Conventional

January 1979 Status Report

CCIRRS

Container Insert

Lancer Boss Sideloader

January 1980 Status Report

67,000-Pound Capacity Container Handler

July 1980 Status Report

40-Foot Platform Container, Military (Flatrack) Mobile Port Modules

January 1982 Status Report

Aircraft Mobile Loader

January 1983 Status Report

Conventional Multi-Purpose Barges (Trans Hydro Barges)

INSERT

Navy Internal Restraint System (IRS Kit) for Commercial Containers

Pallet Container (PALCON)

Shore Side Trafficability and Storage Facility Construction

Wood Dunnaging Restraint System (Savanna)

January 1984 Status Report

Container Offloading and Transfer Systems (COTS) Relative Motion Mitigation

January 1985 Status Report

None

Û

1986 Status Report

Barge, Knockdown, Rapid Deployable (BK)

Container Offloading and Transfer System (COTS); COD and TCDF COTS Crane Support

Container Offloading and Transfer System (COTS); Temporary Container

Discharge Facility (TDCF)

1989 Status Report

Air/Surface Intermodal General Purpose Container
Container Offloading and Transfer System (COTS), Crane on Deck (COD)
Container Offloading and Transfer System (COTS), Helicopter Offloading
50,000-Pound Capacity Depot and Terminal Container Handler, Front Loader
40-Foot Flatrack—Army
Lightweight Container Handler
Pre-Staged Ammunition Loading System (PALS)
Slip Sheets for Unstuffing Containerized Ammunition
Spreader Bars, Remote Control
Super Jack Mobile Loading System

1990 Status Report

PLS Container (COMPODS)

Rough Terrain Container Transporter (RTCT)

Temporary Container Discharge Facility (TCDF)

1991 Status Report

Basic Merchant Ship Naval Augmentation Program (MSNAP) Module Habitability and Utility Support System (HUSS)

Modular Mobile Repair System (MMRS)

Ammunition Containerization Evaluation (Follow-On Efforts)

Crane Rotator

Containership Strike-Up System (CSUS)

463L/ISO Adapter System

1992 Status Report

20' Flatrack, Project Easy ISO
Top Handler, Intermodal Container Handling, Lightweight Expandable
250-Ton, Truck-Mounted, Container Handling Crane
Lighter, Amphibian, Heavy-Lift (LAMP-H)
Mobile Straddle Crane

1994 Status Report

Palletized Load System (PLS) Logistics Container Lifting Semitrailer

Acronyms and Abbreviations

AACTS Automated All-weather Cargo Transfer System

ABS American Bureau of Shipping

ACC Air Combat Command

AD Armament Division

AIS Avionics Intermediate Shop

AMC Army Materiel Command

AMC Air Mobility Command

AMCON Ammunition Container

AMS Anchor Mooring System

ANSI American National Standards Institute

APC Armored Personnel Carrier

APG Aberdeen Proving Ground, MD

AR Army Regulation

ASARC Army System Acquisition Review Council

ASIOE Associated Support Items of Equipment

ASP Ammunition Supply Point

ATLAS All Terrain Lifter, Articulated System

ATACMS Army Tactical Missile System
ATCOM Aviation and Troop Command

BOE Bureau of Explosives

BRDEC Belvoir Research, Development and Engineering Center

CADS Containerized Ammunition Distribution System

CB Chemical/Biological

CCSA Continership Cargo Stowage Adapter

CEP Concept Evaluation Program

CHI Coastal, Harbor, Inland

CLF Cantilevered Lift Frame

CONUS Continental United States

CSC Convention for Safe Containers

CSNP Causeway Sections, Non Powered

CSP Causeway Section, Powered

CWR Calm Water Ramp

DAB Defense Acquisition Board

DED Diesel Engine Driven

DEPMED Deployable Medical

DISCOM Division Support Command

DLA Defense Logistics Agency

DOD Department of Defense

DOT Department of Transportation

DPO Development Frove-Out

DSN Defense Switched Network (formerly Autovon)

EAT External Air Transport

EBFL Extendable Boom Forklift

EDSS Equipment Deployment and Storage System

ELCAS (M) Elevated Causeway, Modular

EMD Engineering and Manufacturing Development

EMI Electro-Magnetic Interference

EPF Enhanced PLS Flatrack

FC Floating Causeway

FDTE Force Development Test and Evaluation

FUE First Unit Equipment

FY Fiscal Year (Oct 1 - 30 Sept)

GS General Support

GSSA General Support Supply Activities

GVW Gross Vehicle Weight

HIK Hooklift Interface Kit

HISEACOTS High Sea State Container Transfer System

HP Horsepower

HQ Headquarters

Hz Hertz

IOC Initial Operational Capability

IPR In Process Review

ISA Interservice Support Agreement

ISO International Organization for Standardization (French translation)

J-LOTS Joint-Logistics-Over-The-Shore

K thousand(s)

kW kilowatt

LACH Lightweight Amphibious Container Handler

LACV-30 Lighter Air Cushion Vehicle, 30 Ton

LB pound(s)
LC Load Center

LCC Logistics Control Code

LCU Landing Craft Utility

LOTS Logistics-Over-The-Shore

LPU Limited Procurement Urgent

LRP Load and Roll Pallet
LST Landing Ship Tank

LSV Logistics Support Vessel

MC Materiel Change

MCF Modular Causeway Ferry

MERWS Modular Extendable Rigid Wall Shelter

MF Mobile Facility

MILVAN Military Van

MLRS Multiple Launch Rocket System

MM millimeter(s)

NATC Nevada Automotive Test Center
NAVAIR Naval Air Systems Command

NDI Non-Developmental Item

NL Navy Lighterage

NSN National Stock Number

O&O Operational and Organizational

ORD Operational Requirement Document

PACK Pontoon Air Cushion Kit

PLS Palletized Load System

PM Product/Project Manager

PO-AWC Product Office for Amphibians and Watercraft

POC Point of Contact

POM Program Objective Memorandum

POP Proof of Principle

Q quarter

QUADCON Quadruple Container

RBTS Rider Block Tagline System

RD&A Research, Development and Acquisition

RD&E Research, Development and Engineering

RFP Request for Proposal

ROC Required Operational Capability

RO/RO DF Roll-on/Roll-off Discharge Facility

ROWPU Reverse Osmosis Water Purification Unit

RRF Ready Reserve Force

RTCC Rough Terrain Container Crane

RTCH Rough Terrain Container Handler

RTFLT Rough Terrain Forklift Truck

SBIR Small Business Innovative Research

SIXCON Six Containers

SLWT Side Loadable Warping Tugs

SON Statement of Operational Need

SS Sea State

SS Steam Ship

TACOM Tank-Automotive Command

T-ACS Auxiliary Crane Ship

T-AKR Vehicle Cargo Ship
TC Type Classification

TRADOC Training and Doctrine Command

TRICON Triple Container

US United States

USAREUR US Army Europe

USCG US Coast Guard

VRRTFLT Variable Reach Rough Terrain Forklift Truck

YPG Yuma Proving Ground, AZ